

Gateway: Carbon Emission Reduction
T8 LONG

change in kw-h	3494.4		Total change in btus:	11926387.2
% from fossil	21%		Total change in bil btus from fossil:	0.002504541
btus/kw-h	3413			
% from coal	50%		change of bil btus from coal:	0.001252271
% from oil	50%		change of bil btus from oil:	0.001252271
Coal:	lbs CO2/billion btus	208000	Reduction of CO2 (lbs):	260.4722964
	lbs CO/billion btus	208	Reduction of CO (lbs):	0.260472296
	lbs Nox/billion btus	457	Reduction of NOx (lbs):	0.57228769
	lbs SO2/billion btus	2591	Reduction of SO2 (lbs):	3.24463327
	lbs Particulates/billion btus	2744	Reduction of Particulates (lbs):	3.43623068
Oil:	lbs CO2/billion btus	164000	Reduction of CO2 (lbs):	205.3723876
	lbs CO/billion btus	33	Reduction of CO (lbs):	0.041324932
	lbs Nox/billion btus	448	Reduction of NOx (lbs):	0.561017254
	lbs SO2/billion btus	1122	Reduction of SO2 (lbs):	1.405047676
	lbs Particulates/billion btus	84	Reduction of Particulates (lbs):	0.105190735
			Totals	
			Reduction of CO2 (lbs):	465.844684
			Reduction of CO (lbs):	0.301797228
			Reduction of NOx (lbs):	1.133304944
			Reduction of SO2 (lbs):	4.649680946
			Reduction of Particulates (lbs):	3.541421415

Gateway: Carbon Emission Reduction

T5 3ft

change in kw-h	8328.32	Total change in btus:	28424556.16
% from fossil	21%	Total change in bil btus from fossil:	0.005969157
btus/kw-h	3413	change of bil btus from coal:	0.002984578
% from coal	50%	change of bil btus from oil:	0.002984578
% from oil	50%		

Coal:	lbs CO2/billion btus	208000	Reduction of CO2 (lbs):	620.7923065
	lbs CO/billion btus	208	Reduction of CO (lbs):	0.620792307
	lbs Nox/billion btus	457	Reduction of NOx (lbs):	1.363952327
	lbs SO2/billion btus	2591	Reduction of SO2 (lbs):	7.733042626
	lbs Particulates/billion btus	2744	Reduction of Particulates (lbs):	8.189683121
Oil:	lbs CO2/billion btus	164000	Reduction of CO2 (lbs):	489.4708571
	lbs CO/billion btus	33	Reduction of CO (lbs):	0.098491087
	lbs Nox/billion btus	448	Reduction of NOx (lbs):	1.337091122
	lbs SO2/billion btus	1122	Reduction of SO2 (lbs):	3.348696961
	lbs Particulates/billion btus	84	Reduction of Particulates (lbs):	0.250704585

Totals	Reduction of CO2 (lbs):	1110.263164
	Reduction of CO (lbs):	0.719283394
	Reduction of NOx (lbs):	2.701043449
	Reduction of SO2 (lbs):	11.08173959
	Reduction of Particulates (lbs):	8.440387706

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PAR 38

change in kw-h	4118.4		Total change in btus:	14056099.2
% from fossil	21%		Total change in bil btus from fossil:	0.002951781
btus/kw-h	3413			
% from coal	50%		change of bil btus from coal:	0.00147589
% from oil	50%		change of bil btus from oil:	0.00147589
Coal:				
lbs CO2/billion btus	208000		Reduction of CO2 (lbs):	306.9852065
lbs CO/billion btus	208		Reduction of CO (lbs):	0.306985207
lbs Nox/billion btus	457		Reduction of NOx (lbs):	0.67448192
lbs SO2/billion btus	2591		Reduction of SO2 (lbs):	3.824032068
lbs Particulates/billion btus	2744		Reduction of Particulates (lbs):	4.049843302
Oil:				
lbs CO2/billion btus	164000		Reduction of CO2 (lbs):	242.0460282
lbs CO/billion btus	33		Reduction of CO (lbs):	0.048704384
lbs Nox/billion btus	448		Reduction of NOx (lbs):	0.661198906
lbs SO2/billion btus	1122		Reduction of SO2 (lbs):	1.655949047
lbs Particulates/billion btus	84		Reduction of Particulates (lbs):	0.123974795
			Totals	
			Reduction of CO2 (lbs):	549.0312348
			Reduction of CO (lbs):	0.35568959
			Reduction of NOx (lbs):	1.335680826
			Reduction of SO2 (lbs):	5.479981115
			Reduction of Particulates (lbs):	4.173818096

Cartref: Carbon Emission Reduction

T8

change in kw-h	4392.96	Total change in btus:	14993172.48
% from fossil	21%	Total change in bil btus from fossil:	0.003148566
btus/kw-h	3413		
% from coal	50%	change of bil btus from coal:	0.001574283
% from oil	50%	change of bil btus from oil:	0.001574283

Coal:	lbs CO2/billion btus	208000	Reduction of CO2 (lbs):	327.450887
	lbs CO/billion btus	208	Reduction of CO (lbs):	0.327450887
	lbs Nox/billion btus	457	Reduction of NOx (lbs):	0.719447381
	lbs SO2/billion btus	2591	Reduction of SO2 (lbs):	4.078967539
	lbs Particulates/billion btus	2744	Reduction of Particulates (lbs):	4.319832855
Oil:	lbs CO2/billion btus	164000	Reduction of CO2 (lbs):	258.1824301
	lbs CO/billion btus	33	Reduction of CO (lbs):	0.051951343
	lbs Nox/billion btus	448	Reduction of NOx (lbs):	0.705278833
	lbs SO2/billion btus	1122	Reduction of SO2 (lbs):	1.76634565
	lbs Particulates/billion btus	84	Reduction of Particulates (lbs):	0.132239781

Totals	Reduction of CO2 (lbs):	585.6333171
	Reduction of CO (lbs):	0.37940223
	Reduction of NOx (lbs):	1.424726215
	Reduction of SO2 (lbs):	5.845313189
	Reduction of Particulates (lbs):	4.452072636

Helperian: Carbon Emission Reduction

T8

change in kw-h	11182.08	Total change in btus:	38164439.04
% from fossil	21%	Total change in bil btus from fossil:	0.008014532
btus/kw-h	3413		
% from coal	50%	change of bil btus from coal:	0.004007266
% from oil	50%	change of bil btus from oil:	0.004007266

Coal:	lbs CO2/billion btus	208000	Reduction of CO2 (lbs):	833.5113486
	lbs CO/billion btus	208	Reduction of CO (lbs):	0.833511349
	lbs Nox/billion btus	457	Reduction of NOx (lbs):	1.831320607
	lbs SO2/billion btus	2591	Reduction of SO2 (lbs):	10.38282646
	lbs Particulates/billion btus	2744	Reduction of Particulates (lbs):	10.99593818
Oil:	lbs CO2/billion btus	164000	Reduction of CO2 (lbs):	657.1916403
	lbs CO/billion btus	33	Reduction of CO (lbs):	0.132239781
	lbs Nox/billion btus	448	Reduction of NOx (lbs):	1.795255212
	lbs SO2/billion btus	1122	Reduction of SO2 (lbs):	4.496152563
	lbs Particulates/billion btus	84	Reduction of Particulates (lbs):	0.336610352

Totals	Reduction of CO2 (lbs):	1490.702989
	Reduction of CO (lbs):	0.96575113
	Reduction of NOx (lbs):	3.62657582
	Reduction of SO2 (lbs):	14.87897903
	Reduction of Particulates (lbs):	11.33254853

Helperian: Carbon Emission Reduction

PAR 38

change in kw-h	1684.8	Total change in btus:	5750222.4
% from fossil	21%	Total change in bil btus from fossil:	0.001207547
btus/kw-h	3413		
% from coal	50%	change of bil btus from coal:	0.000603773
% from oil	50%	change of bil btus from oil:	0.000603773

Coal:	lbs CO2/billion btus	208000	Reduction of CO2 (lbs):	125.5848572
	lbs CO/billion btus	208	Reduction of CO (lbs):	0.125584857
	lbs Nox/billion btus	457	Reduction of NOx (lbs):	0.275924422
	lbs SO2/billion btus	2591	Reduction of SO2 (lbs):	1.564376755
	lbs Particulates/billion btus	2744	Reduction of Particulates (lbs):	1.656754078
Oil:	lbs CO2/billion btus	164000	Reduction of CO2 (lbs):	99.01882973
	lbs CO/billion btus	33	Reduction of CO (lbs):	0.019924521
	lbs Nox/billion btus	448	Reduction of NOx (lbs):	0.270490462
	lbs SO2/billion btus	1122	Reduction of SO2 (lbs):	0.677433701
	lbs Particulates/billion btus	84	Reduction of Particulates (lbs):	0.050716962

Totals	Reduction of CO2 (lbs):	224.6036869
	Reduction of CO (lbs):	0.145509378
	Reduction of NOx (lbs):	0.546414884
	Reduction of SO2 (lbs):	2.241810456
	Reduction of Particulates (lbs):	1.707471039

