

Rhys Carpenter Library: Carbon Footprint Reduction

Model: T8					
change in kw-h	33791.24			Total change in btus:	115329502.1
% from fossil	21%			Total change in bil btus from fossil:	0.024219195
btus/kw-h	3413				
% from coal	50%			change of bil btus from coal:	0.012109598
% from oil	50%			change of bil btus from oil:	0.012109598
Coal:	lbs CO2/billion btus	208000		Reduction of CO2 (lbs):	2518.796326
	lbs CO/billion btus	208		Reduction of CO (lbs):	2.518796326
	lbs Nox/billion btus	457		Reduction of NOx (lbs):	5.534086159
	lbs SO2/billion btus	2591		Reduction of SO2 (lbs):	31.3759677
	lbs Particulates/billion btus	2744		Reduction of Particulates (lbs):	33.22873615
Oil:	lbs CO2/billion btus	164000		Reduction of CO2 (lbs):	1985.974027
	lbs CO/billion btus	33		Reduction of CO (lbs):	0.399616725
	lbs Nox/billion btus	448		Reduction of NOx (lbs):	5.42509978
	lbs SO2/billion btus	1122		Reduction of SO2 (lbs):	13.58696864
	lbs Particulates/billion btus	84		Reduction of Particulates (lbs):	1.017206209
			Totals	Reduction of CO2 (lbs):	4504.770353
				Reduction of CO (lbs):	2.918413051
				Reduction of NOx (lbs):	10.95918594
				Reduction of SO2 (lbs):	44.96293634
				Reduction of Particulates (lbs):	34.24594236

Model: U-shaped T8					
change in kw-h	15396.815			Total change in btus:	52549329.6
% from fossil	21%			Total change in bil btus from fossil:	0.011035359
btus/kw-h	3413				
% from coal	50%			change of bil btus from coal:	0.00551768
% from oil	50%			change of bil btus from oil:	0.00551768
Coal:	lbs CO2/billion btus	208000		Reduction of CO2 (lbs):	1147.677358
	lbs CO/billion btus	208		Reduction of CO (lbs):	1.147677358
	lbs Nox/billion btus	457		Reduction of NOx (lbs):	2.521579581
	lbs SO2/billion btus	2591		Reduction of SO2 (lbs):	14.29630786
	lbs Particulates/billion btus	2744		Reduction of Particulates (lbs):	15.14051284
Oil:	lbs CO2/billion btus	164000		Reduction of CO2 (lbs):	904.8994556
	lbs CO/billion btus	33		Reduction of CO (lbs):	0.182083427
	lbs Nox/billion btus	448		Reduction of NOx (lbs):	2.471920464
	lbs SO2/billion btus	1122		Reduction of SO2 (lbs):	6.19083652
	lbs Particulates/billion btus	84		Reduction of Particulates (lbs):	0.463485087
			Totals	Reduction of CO2 (lbs):	2052.576814
				Reduction of CO (lbs):	1.329760785
				Reduction of NOx (lbs):	4.993500045
				Reduction of SO2 (lbs):	20.48714438
				Reduction of Particulates (lbs):	15.60399793

Model: PAR38					
change in kw-h	18033.75			Total change in btus:	61549188.75
% from fossil	21%			Total change in bil btus from fossil:	0.01292533
btus/kw-h	3413				
% from coal	50%			change of bil btus from coal:	0.006462665
% from oil	50%			change of bil btus from oil:	0.006462665
Coal:	lbs CO2/billion btus	208000		Reduction of CO2 (lbs):	1344.234282
	lbs CO/billion btus	208		Reduction of CO (lbs):	1.344234282
	lbs Nox/billion btus	457		Reduction of NOx (lbs):	2.953437822
	lbs SO2/billion btus	2591		Reduction of SO2 (lbs):	16.74476455
	lbs Particulates/billion btus	2744		Reduction of Particulates (lbs):	17.73355226
Oil:	lbs CO2/billion btus	164000		Reduction of CO2 (lbs):	1059.87703
	lbs CO/billion btus	33		Reduction of CO (lbs):	0.213267939
	lbs Nox/billion btus	448		Reduction of NOx (lbs):	2.895273839
	lbs SO2/billion btus	1122		Reduction of SO2 (lbs):	7.251109927
	lbs Particulates/billion btus	84		Reduction of Particulates (lbs):	0.542863845
			Totals	Reduction of CO2 (lbs):	2404.111313
				Reduction of CO (lbs):	1.557502221
				Reduction of NOx (lbs):	5.848711661
				Reduction of SO2 (lbs):	23.99587447
				Reduction of Particulates (lbs):	18.27641611

Carbon Emission Reduction	
T8, U-shaped T8 & PAR38	
Totals:	
Reduction of CO2 (lbs):	8961.458479
Reduction of CO (lbs):	5.805676058
Reduction of NOx (lbs):	21.80139764
Reduction of SO2 (lbs):	89.4459552
Reduction of Particulates (lbs):	68.1263564