

Table 2: Change in CO2 Emissions (short tons) and Heat Input (mmBtu) Since 2009 for Eleven RGGI States

Year	9-State RGGI			New Jersey			Virginia		
	CO2 Mass	Heat Input	CO2 Rate	CO2 Mass	Heat Input	CO2 Rate	CO2 Mass	Heat Input	CO2 Rate
2009	101,851,337	1,320,901,495	154.2	11,732,094	133,162,146	176.2	30,348,018	324,931,355	186.8
2010	110,999,074	1,475,264,860	150.5	14,638,010	162,725,807	179.9	32,598,616	365,853,728	178.2
2011	97,966,177	1,357,363,544	144.3	12,929,819	166,834,334	155.0	26,522,029	302,516,447	175.3
2012	89,075,182	1,322,290,671	134.7	12,398,785	188,108,982	131.8	23,796,380	292,432,620	162.7
2013	83,084,255	1,188,386,327	139.8	11,602,351	175,518,653	132.2	30,279,472	349,139,387	173.5
2014	84,252,729	1,205,811,480	139.7	13,888,228	206,366,297	134.6	30,263,655	345,382,496	175.2
2015	81,506,825	1,239,868,758	131.5	16,033,840	255,712,231	125.4	30,888,490	383,732,300	161.0
2016	78,123,445	1,207,049,686	129.4	17,939,043	295,415,524	121.4	33,981,318	438,078,287	155.1
2017	63,486,878	983,446,926	129.1	14,625,018	245,345,532	119.2	31,183,997	440,863,101	141.5
2018	70,079,586	1,076,068,159	130.3	14,858,628	248,924,697	119.4	32,959,853	469,962,867	140.3
2019	59,083,901	936,117,707	126.2	15,288,729	257,101,506	118.9	29,951,577	461,697,131	129.7
2020	59,314,769	966,639,494	122.7	11,133,280	187,276,840	118.9	31,536,130	490,974,528	128.5
Delta	-39%	-28%	-16%	5%	50%	-30%	6%	43%	-26%

Year	Nine - State RGGI									
	Natural Gas		Coal		Residual Oil		Diesel Oil		Other Fuel	
	CO2 Mass	Heat Input	CO2 Mass	Heat Input	CO2 Mass	Heat Input	CO2 Mass	Heat Input	CO2 Mass	Heat Input
2009	39,179,889	658,047,581	52,946,094	514,844,704	6,798,589	100,301,906	1,462,864	31,795,267	1,463,900	15,912,036
2010	45,444,345	763,617,250	55,081,939	537,257,669	8,291,840	130,842,948	824,044	28,516,801	1,356,905	15,030,192
2011	49,744,574	836,536,763	40,755,097	396,579,889	5,199,909	82,425,385	1,036,945	27,417,733	1,229,653	14,403,775
2012	52,985,873	891,639,950	26,249,055	256,134,001	6,870,732	112,918,496	1,355,885	42,536,055	1,613,637	19,062,169
2013	46,658,008	783,325,821	28,721,977	279,477,082	5,022,709	79,706,507	1,273,393	30,760,460	1,408,167	15,116,457
2014	47,398,125	791,755,327	28,761,226	279,796,897	5,271,028	80,021,165	940,208	34,239,472	1,882,144	19,998,619
2015	51,983,116	869,882,508	21,166,533	205,885,822	5,323,396	80,611,135	976,283	61,848,987	2,057,497	21,640,307
2016	53,194,349	892,690,825	19,210,932	187,599,651	2,440,791	39,367,731	953,652	63,407,334	2,323,721	23,984,145
2017	47,800,455	801,748,007	11,595,839	113,917,244	1,256,674	19,260,178	937,177	28,890,373	1,896,733	19,631,124
2018	52,566,146	878,882,184	12,579,769	122,697,201	2,151,926	31,868,360	787,643	21,673,377	1,994,103	20,947,038
2019	48,941,350	822,064,941	6,861,005	66,928,465	907,388	14,683,515	428,719	12,176,727	1,945,439	20,264,060
2020	53,186,304	894,529,271	3,627,707	35,448,907	425,838	6,644,335	591,226	14,292,268	1,483,694	15,724,713
Delta	15%	15%	-84%	-84%	-83%	-83%	-46%	-45%	34%	26%

Year	New Jersey									
	Natural Gas		Coal		Residual Oil		Diesel Oil		Other Fuel	
	CO2 Mass	Heat Input	CO2 Mass	Heat Input	CO2 Mass	Heat Input	CO2 Mass	Heat Input	CO2 Mass	Heat Input
2009	7,645,631	128,336,859	4,029,105	4,029,105	57,359	796,182	0	0	0	0
2010	9,282,384	155,929,714	5,259,263	5,259,263	96,363	1,536,829	0	0	0	0
2011	9,625,402	162,044,520	3,205,078	3,205,078	99,339	1,584,737	0	0	0	0
2012	11,003,699	185,494,459	1,317,346	1,317,346	77,740	1,297,178	0	0	0	0
2013	10,342,424	173,844,019	1,231,530	1,231,530	28,398	443,104	0	0	0	0
2014	12,208,085	204,517,739	1,665,293	1,665,293	14,850	183,265	0	0	0	0
2015	15,173,366	254,724,507	849,261	849,261	11,213	138,464	0	0	0	0
2016	17,537,183	294,989,281	399,709	399,709	2,150	26,534	0	0	0	0
2017	14,586,222	245,306,735	38,796	38,796	0	0	0	0	0	0
2018	14,840,979	248,907,049	17,648	17,648	0	0	0	0	0	0
2019	15,288,729	257,101,506	0	0	0	0	0	0	0	0
2020	11,133,280	187,276,840	0	0	0	0	0	0	0	0
Delta	55%	55%	-100%	-100%	-100%	-100%				

Year	Virginia									
	Natural Gas		Coal		Residual Oil		Diesel Oil		Other Fuel	
	CO2 Mass	Heat Input	CO2 Mass	Heat Input	CO2 Mass	Heat Input	CO2 Mass	Heat Input	CO2 Mass	Heat Input
2009	4,120,988	68,614,713	25,794,260	250,970,416	413,702	5,111,240	19,067	234,986	0	0
2010	6,260,626	104,604,853	25,597,731	252,104,456	695,672	8,594,911	44,589	549,507	0	0
2011	6,207,251	104,173,460	20,044,500	195,004,590	243,059	3,002,964	27,220	335,432	0	0
2012	8,491,560	142,861,759	15,078,664	146,778,604	164,110	2,027,603	62,046	764,655	0	0
2013	7,646,158	128,530,563	22,481,387	218,732,959	114,897	1,419,524	37,030	456,341	0	0
2014	7,296,471	121,220,918	21,269,682	207,119,993	349,564	4,318,926	123,198	1,518,293	1,224,739	11,204,366
2015	11,682,212	195,722,954	17,207,073	167,584,491	560,686	6,927,235	108,916	1,342,266	1,329,603	12,155,353
2016	15,146,539	254,558,587	17,101,208	166,650,534	228,844	2,827,417	87,264	1,075,451	1,417,463	12,966,298
2017	17,628,496	309,055,701	12,016,305	117,091,957	135,061	1,668,693	63,892	787,429	1,340,242	12,259,321
2018	21,157,467	354,842,749	10,012,068	97,563,696	279,452	3,452,605	89,684	1,105,272	1,421,181	12,998,545
2019	23,982,337	403,390,636	4,517,558	44,659,658	96,565	1,193,049	15,261	188,073	1,339,857	12,265,715
2020	25,995,810	437,361,645	4,376,844	42,637,207	82,238	1,016,070	20,758	255,824	1,060,480	9,703,783
Delta	329%	331%	-74%	-74%	-66%	-66%	38%	38%		