

# Appendix to RGGI: A Model Program for the Power Sector



## Monetized Benefits of Avoided Emissions

December 10, 2015

Monetized Benefits of Avoided SO <sub>2</sub> and NO <sub>x</sub> in RGGI States						
State	Pollutant	Year	Emissions (tons)	% Reduction	Monetized Health Benefits	Total Savings
CT	SO <sub>2</sub>	2009	1,754.42	16%	\$9,689,995	\$13,265,577
		2014	1,477.56			
	NO <sub>x</sub>	2009	2,642.39	26%	\$3,575,582	
		2014	1,954.78			
DE	SO <sub>2</sub>	2009	16543.287	95%	\$549,984,715	\$570,228,019
		2014	829.438			
	NO <sub>x</sub>	2009	5684.404	68%	\$20,243,304	
		2014	1791.461			
MA	SO <sub>2</sub>	2009	35,182.26	87%	\$1,067,914,995	\$1,089,220,648
		2014	4,670.41			
	NO <sub>x</sub>	2009	8,204.76	50%	\$21,305,653	
		2014	4,107.52			
MD	SO <sub>2</sub>	2009	199,326.83	88%	\$6,152,071,415	\$6,182,114,197
		2014	23,553.36			
	NO <sub>x</sub>	2009	20,830.86	28%	\$30,042,782	
		2014	15,053.40			
ME	SO <sub>2</sub>	2009	960.35	11%	\$3,651,410	\$4,572,210
		2014	856.02			
	NO <sub>x</sub>	2009	716.10	25%	\$920,800	
		2014	539.02			
NH	SO <sub>2</sub>	2009	33,371.83	92%	\$1,075,751,880	\$1,080,992,170
		2014	2,636.06			
	NO <sub>x</sub>	2009	3,756.80	27%	\$5,240,290	
		2014	2,749.05			
NY	SO <sub>2</sub>	2009	46,343.59	64%	\$1,038,368,835	\$1,108,366,550
		2014	16,675.91			
	NO <sub>x</sub>	2009	35,675.47	38%	\$69,997,715	
		2014	22,214.37			
RI	SO <sub>2</sub>	2009	17.41	2%	\$11,795	\$162,621
		2014	17.07			
	NO <sub>x</sub>	2009	546.77	5%	\$150,826	
		2014	517.77			
VT	SO <sub>2</sub>	2009	1.64	5%	\$2,590	\$(240,827)
		2014	1.57			
	NO <sub>x</sub>	2009	114.17	-41%	\$(243,417)	
		2014	160.99			

RGGI Region Savings: **\$10,048,681,164**

### Sources and Methodology:

Emissions data from: EPA Air Markets Program Data, available at <http://ampd.epa.gov/ampd/>

Emissions reductions are multiplied by benefit per ton (BPM) estimates to determine monetized health benefits.

This analysis uses 2016 BPM estimates from EPA. EPA BPM estimates and additional information on BPM assumptions is available at: <http://www2.epa.gov/benmap/sector-based-pm25-benefit-ton-estimates>

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