

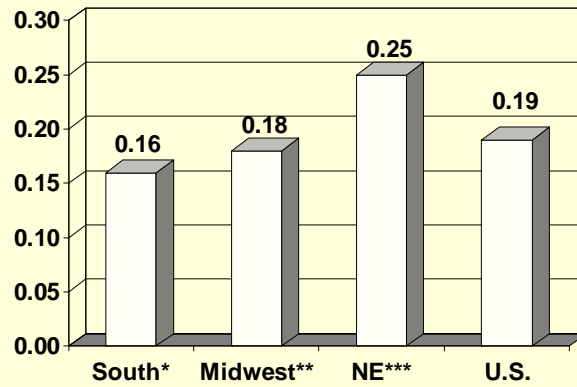
Highlights of EPA CAMD 2011/2012* Emissions Data

*2012 data are preliminary as of February 19, 2013; regional data comparisons exclude plants with incomplete 2012 data.

EPA 1990-2012 EGU Summary and CSAPR Phase II MATS Base Case Emissions 2015

1990 through 2012 Emission Comparisons, Annual						
Acid Rain Program and Clean Air Interstate Rule Emissions, Emission Rates, and Heat Input Changes at National Level (All Units)						
<i>1990 through 2011 data are final, 2012 are preliminary data submitted to EPA from sources as of February 19, 2013. EPA will update as it receives and verifies data.</i>						
	1990	2000	2005	2010	2012	EPA 2015 MATS BASE CASE PROJECTIONS W/CSAPR P2
SO ₂ (million tons)	15.73	11.20	10.22	5.17	3.32	3.3
NO _x (million tons)	6.66	5.10	3.63	2.10	1.71	1.7
Heat Input (billion mmBtus)	19.68	25.62	27.14	27.00	25.28	
SO ₂ Rate (lbs/mmBtus)	1.60	0.87	0.75	0.38	0.26	
NO _x Rate (lbs/mmBtus)	0.68	0.40	0.27	0.16	0.14	
						SOURCE: MATS FINAL REG IMPACT ANALYSIS, DEC 2011, TABLE 3-4.

2012 Coal EGU NOx Emission Rates by Region (Lb. NOx/mmbtu)

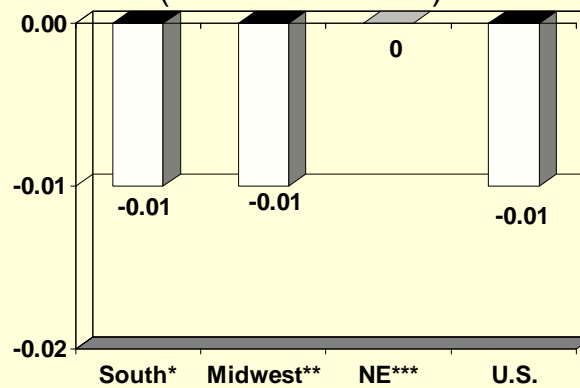


*AL, GA, KY, NC, SC, TN, VA, WV

** IL, IN, MI, OH, WI

*** DE, MD, NY, NJ, PA

Change in Coal EGU NOx Emission Rates by Region, 2012 vs 2011 (Lb. NOx/mmbtu)

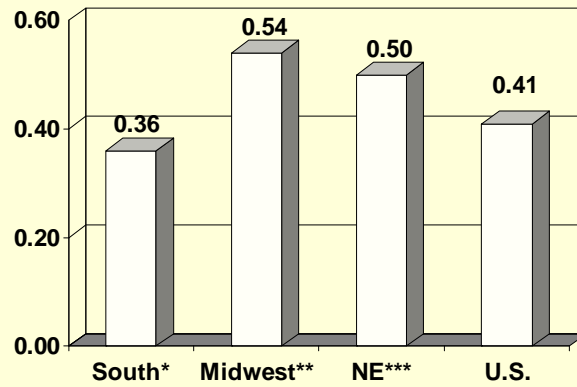


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2012 Coal EGU SO2 Emission Rates by Region (Lb. SO2/mmbtu)

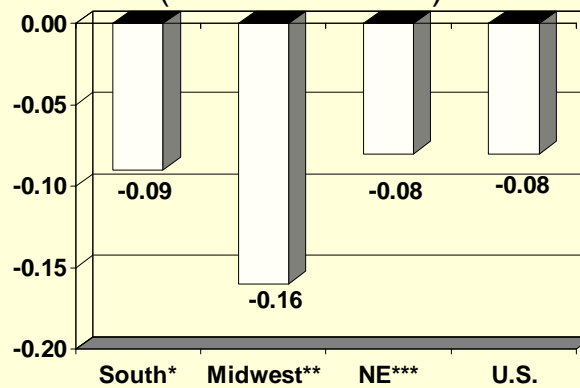


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Change in Coal EGU SO2 Emission Rates by Region, 2012 vs 2011 (Lb. SO2/mmbtu)

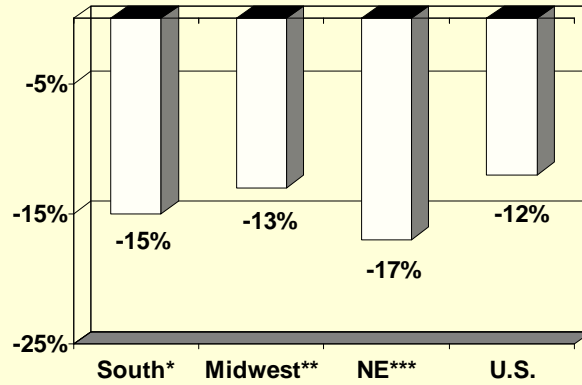


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Percent Change in Coal EGU BTU Heat Input by Region, 2012 vs 2011 (MMBTUs)

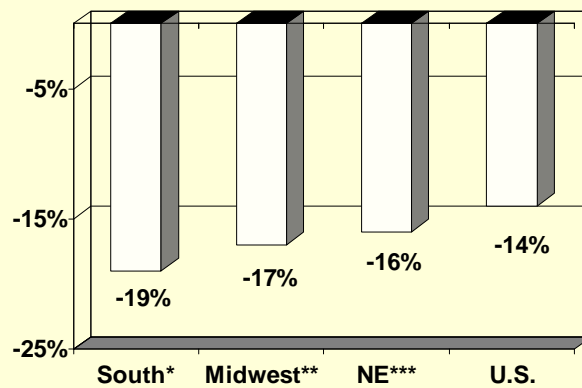


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Percent Change in Coal EGU NOx Emissions by Region, 2012 vs 2011 (tons reduced)

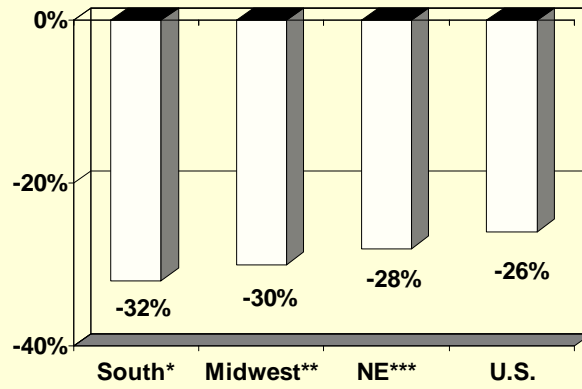


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Percent Change in Coal EGU SO₂ Emissions by Region, 2012 vs 2011 (tons reduced)



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Region/state	2012 vs 2011 NOx Emissions (%)	2011 NOx Emission Rate (lb/mmBtu)	2012 NOx Emission Rate (lb/mmBtu)	2012 vs 2011 NOx Emission Rate (lb/mmBtu)	2012 vs 2011 NOx Emission Rate (%)	2011 Heat Input (mmBtu)	2012 Heat Input (mmBtu)	2012 vs 2011 Heat Input (mmBtu)	2012 vs 2011 Heat Input (%)
South									
AL	-27%	0.19	0.17	-0.02	-11%	616,122	504,430	-111,693	-18%
GA	-38%	0.16	0.14	-0.02	-12%	642,674	453,103	-189,572	-29%
KY	-14%	0.19	0.18	-0.01	-4%	971,988	874,944	-97,044	-10%
NC	7%	0.15	0.18	0.03	22%	590,200	519,626	-70,574	-12%
SC	-26%	0.13	0.11	-0.02	-13%	344,967	291,044	-53,924	-16%
TN	-18%	0.13	0.12	-0.01	-8%	415,015	372,253	-42,762	-10%
VA	-39%	0.28	0.25	-0.03	-10%	220,653	149,265	-71,388	-32%
WV	-9%	0.15	0.14	0.00	-2%	754,784	696,303	-58,481	-8%
Subtotal	-19%	0.17	0.16	-0.01	-5%	4,556,404	3,860,966	-695,438	-15%
Midwest									
IL	-24%	0.14	0.12	-0.02	-13%	951,260	829,200	-122,060	-13%
IN	-13%	0.22	0.21	-0.01	-3%	1,081,390	970,866	-110,524	-10%
MI	-10%	0.22	0.21	-0.01	-4%	620,057	575,799	-44,258	-7%
OH	-19%	0.19	0.18	0.00	-1%	1,073,030	883,350	-189,680	-18%
WI	-23%	0.14	0.13	-0.07	-1%	439,601	366,403	-73,198	-17%
Subtotal	-17%	0.18	0.18	-0.01	-4%	4,165,337	3,625,618	-539,719	-13%
Northeast									
DE	-62%	0.23	0.09	-0.14	-60%	22,594	21,661	-933	-4%
MD	-27%	0.15	0.15	0.00	-3%	228,218	171,842	-56,376	-25%
NY	-45%	0.24	0.27	0.03	12%	99,320	48,763	-50,557	-51%
NJ	-27%	0.12	0.13	0.01	11%	54,215	35,742	-18,473	-34%
PA	-12%	0.28	0.28	0.00	0%	1,013,103	897,672	-115,432	-11%
Subtotal	-16%	0.25	0.25	0.00	1%	1,417,451	1,175,680	-241,770	-17%
U.S. Totals	-14%	0.20	0.19	-0.01	-3%	18,233,746	16,002,710	-2,200,398	-12%