

## Facility-Level Emission Changes: 2009-2016

Emissions at facilities included in this analysis either increased or decreased from 2009 to 2016, using the following criteria:

- Analysis includes only coal units;
- Over 75% change in emission rate;
- Over 0.2 lb/mmBtu change in absolute emission rate; and
- Over 1,000 ton change in emissions of SO<sub>2</sub> or NO<sub>x</sub>.

The analysis includes data submitted to EPA as of February 14, 2017. The presentation of this data is not intended to suggest the compliance status of these facilities with currently applicable federal, state, or local environmental requirements.

### Facilities with Increasing SO<sub>2</sub>

Facility	SO <sub>2</sub> Emission Increase	SO <sub>2</sub> Rate Increase
Killen Station, Ohio	8,154 tons (413%)	0.48 lb/mmBtu (544%)
Dolet Hills Power Station, Louisiana	4,371 tons (37%)	0.45 lb/mmBtu (93%)

### Facilities with Increasing NO<sub>x</sub>

Facility	NO <sub>x</sub> Emission Increase	NO <sub>x</sub> Rate Increase
New Madrid Power Plant, Missouri	13,102 tons (407%)	0.45 lb/mmBtu (485%)
Thomas Hill Energy Center, Missouri	8,364 tons (205%)	0.24 lb/mmBtu (229%)
Killen Station, Ohio	3,174 tons (110%)	0.21 lb/mmBtu (163%)
St. Johns River Power, Florida	3,163 tons (45%)	0.22 lb/mmBtu (136%)
Montour, LLC, Pennsylvania	2,700 tons (50%)	0.27 lb/mmBtu (230%)

### Facilities with Decreasing SO<sub>2</sub>

Facility	SO <sub>2</sub> Emission Decrease	SO <sub>2</sub> Rate Decrease
E C Gaston, Alabama	99,475 tons (97%)	2.25 lb/mmBtu (94%)
Keystone, Pennsylvania	90,734 tons (80%)	1.84 lb/mmBtu (81%)
Monroe, Michigan	83,555 tons (97%)	0.90 lb/mmBtu (97%)
W H Sammis, Ohio	67,901 tons (92%)	1.60 lb/mmBtu (92%)
Scherer, Georgia	67,538 tons (97%)	0.55 lb/mmBtu (96%)
Morgantown, Maryland	66,757 tons (96%)	2.12 lb/mmBtu (95%)
James H Miller Jr, Alabama	61,468 tons (99%)	0.59 lb/mmBtu (99%)
Crystal River, Florida	55,313 tons (82%)	0.91 lb/mmBtu (79%)
J M Stuart, Ohio	54,997 tons (86%)	0.66 lb/mmBtu (81%)
Brunner Island, LLC, Pennsylvania	53,314 tons (90%)	1.16 lb/mmBtu (78%)
Kyger Creek, Ohio	52,415 tons (93%)	1.57 lb/mmBtu (92%)
Clifty Creek, Indiana	49,915 tons (92%)	1.25 lb/mmBtu (88%)
Fort Martin Power Station, West Virginia	45,178 tons (95%)	2.23 lb/mmBtu (97%)
Bowen, Georgia	44,358 tons (81%)	0.38 lb/mmBtu (75%)
John E Amos, West Virginia	43,303 tons (89%)	0.66 lb/mmBtu (90%)
Sioux, Missouri	43,259 tons (93%)	1.62 lb/mmBtu (92%)
Leland Olds, North Dakota	42,226 tons (96%)	1.88 lb/mmBtu (96%)
Chalk Point, Maryland	39,995 tons (98%)	1.93 lb/mmBtu (95%)
Shawville, Pennsylvania	32,966 tons (100%)	2.85 lb/mmBtu (100%)
E W Brown, Kentucky	31,362 tons (97%)	2.55 lb/mmBtu (97%)
R M Schahfer Generating Station, Indiana	30,996 tons (96%)	0.57 lb/mmBtu (92%)
Cheswick, Pennsylvania	30,656 tons (94%)	2.17 lb/mmBtu (92%)
Chesterfield Power Station, Virginia	30,118 tons (93%)	0.70 lb/mmBtu (91%)
Brandon Shores, Maryland	30,102 tons (92%)	0.88 lb/mmBtu (90%)
Merrimack, New Hampshire	28,614 tons (99%)	2.16 lb/mmBtu (95%)
Crist Electric Generating Plant, Florida	28,542 tons (97%)	1.45 lb/mmBtu (97%)
Wateree, South Carolina	27,172 tons (97%)	1.69 lb/mmBtu (97%)

Sam Seymour, Texas	26,443 tons (96%)	0.43 lb/mmBtu (96%)
Dickerson, Maryland	25,250 tons (98%)	2.11 lb/mmBtu (94%)
Brayton Point, Massachusetts	24,242 tons (97%)	0.67 lb/mmBtu (89%)
Milton R Young, North Dakota	23,086 tons (90%)	0.84 lb/mmBtu (89%)
Columbia, Wisconsin	22,835 tons (94%)	0.64 lb/mmBtu (93%)
Cliffside, North Carolina	21,899 tons (97%)	1.42 lb/mmBtu (98%)
Baldwin Energy Complex, Illinois	20,823 tons (84%)	0.33 lb/mmBtu (81%)
La Cygne, Kansas	20,617 tons (97%)	0.43 lb/mmBtu (96%)
Mill Creek, Kentucky	19,899 tons (82%)	0.36 lb/mmBtu (77%)
Daniel Electric Generating Plant, Mississippi	19,739 tons (99%)	0.65 lb/mmBtu (98%)
Gallatin, Tennessee	18,259 tons (93%)	0.57 lb/mmBtu (92%)
Williams, South Carolina	16,410 tons (97%)	0.96 lb/mmBtu (96%)
Naughton, Wyoming	16,256 tons (80%)	0.63 lb/mmBtu (81%)
Kincaid Generating Station, Illinois	14,909 tons (87%)	0.36 lb/mmBtu (80%)
John S. Cooper, Kentucky	14,838 tons (98%)	2.00 lb/mmBtu (96%)
Coffeen, Illinois	13,365 tons (100%)	0.56 lb/mmBtu (100%)
R Gallagher, Indiana	13,161 tons (90%)	2.33 lb/mmBtu (75%)
Ottumwa, Iowa	12,377 tons (92%)	0.52 lb/mmBtu (92%)
Gibbons Creek Steam Electric Station, Texas	11,792 tons (99%)	0.68 lb/mmBtu (97%)
Big Stone, South Dakota	10,824 tons (93%)	0.63 lb/mmBtu (90%)
South Oak Creek, Wisconsin	10,780 tons (99%)	0.44 lb/mmBtu (99%)
Dan E Karn, Michigan	10,776 tons (95%)	0.77 lb/mmBtu (95%)
Coronado Generating Station, Arizona	10,656 tons (95%)	0.35 lb/mmBtu (95%)
Boswell Energy Center, Minnesota	10,615 tons (79%)	0.30 lb/mmBtu (80%)
Asbury, Missouri	9,976 tons (91%)	1.32 lb/mmBtu (90%)
J P Madgett, Wisconsin	9,112 tons (91%)	0.64 lb/mmBtu (89%)
Kingston, Tennessee	8,807 tons (78%)	1.00 lb/mmBtu (93%)
Indian River, Delaware	7,744 tons (94%)	0.92 lb/mmBtu (84%)
Michigan City Generating Station, Indiana	7,529 tons (80%)	0.67 lb/mmBtu (77%)
Mercer Generating Station, New Jersey	7,337 tons (100%)	0.92 lb/mmBtu (99%)
Pawnee, Colorado	7,046 tons (83%)	0.66 lb/mmBtu (88%)
McMeekin, South Carolina	6,208 tons (94%)	1.41 lb/mmBtu (94%)
Genoa, Wisconsin	6,205 tons (96%)	0.68 lb/mmBtu (93%)
New Castle, Pennsylvania	5,981 tons (78%)	1.83 lb/mmBtu (84%)
R D Morrow Senior Generating Plant, Mississippi	5,537 tons (98%)	0.45 lb/mmBtu (90%)
Deerhaven, Florida	5,432 tons (94%)	0.69 lb/mmBtu (87%)
Lansing, Iowa	4,614 tons (95%)	0.61 lb/mmBtu (93%)
Bailly Generating Station, Indiana	4,096 tons (84%)	0.25 lb/mmBtu (78%)
Havana, Illinois	3,877 tons (77%)	0.38 lb/mmBtu (83%)
Apache Station, Arizona	3,231 tons (77%)	0.27 lb/mmBtu (76%)
Platte, Nebraska	2,192 tons (82%)	0.58 lb/mmBtu (79%)

#### Facilities with Decreasing NO<sub>x</sub>

Facility	NO <sub>x</sub> Emission Decrease	NO <sub>x</sub> Rate Decrease
Big Stone, South Dakota	10,853 tons (92%)	0.63 lb/mmBtu (89%)
Shawville, Pennsylvania	4,589 tons (98%)	0.32 lb/mmBtu (80%)
Lansing, Iowa	2,836 tons (93%)	0.37 lb/mmBtu (90%)