

# **DIRTY KILOWATTS**

## **AMERICA'S TOP FIFTY POWER PLANT MERCURY POLLUTERS**



**March 2010**

## **About the Environmental Integrity Project**

The Environmental Integrity Project (EIP) is a nonpartisan, nonprofit organization dedicated to the enforcement of the nation's anti-pollution laws and to the prevention of political interference with those laws. EIP provides objective analysis of how the failure to enforce or implement environmental laws increases pollution and harms public health. We also help local communities obtain the protection of environmental laws.

## **Acknowledgement**

Environmental Integrity Project Legal and Research Assistant Adam Engelman contributed to this report.

## **Data Limitations**

EIP's rankings of the nation's top mercury polluters are based on company self-reported data obtained through publicly accessible U.S. Environmental Protection Agency websites. Occasionally, government data may contain errors, either because information is inaccurately reported by the regulated entities or incorrectly transcribed by government agencies. In addition, this report is based on data retrieved in March 2010, and subsequent data retrievals may differ slightly as some companies correct prior reports.

EIP is committed to ensuring that the data we present are as accurate as possible. We will correct any errors that are verifiable.

Questions and Comments can be directed to Ilan Levin at [ilevin@environmentalintegrity.org](mailto:ilevin@environmentalintegrity.org)

Environmental Integrity Project – Texas Office  
1303 San Antonio Street, Suite 200  
Austin, TX 78701

Phone (512) 637-9477 • Fax (512) 584-8019

# AMERICA'S TOP FIFTY POWER PLANT MERCURY POLLUTERS

March 2010

## Introduction

The power plants that provide electricity to run our homes, businesses, and factories are also the single largest source of mercury air pollution in the United States, responsible for more than 40 percent of all human-caused mercury emissions nationwide.<sup>1</sup> Despite years of promises, the electric power industry has barely made a dent in its mercury emissions this decade.

Mercury is a highly toxic metal, and once released into the atmosphere, it settles in lakes and rivers, where it moves up the food chain to humans. According to the U.S. Environmental Protection Agency, roughly half of the nation's lakes and reservoirs have levels of mercury that exceed safe levels.<sup>2</sup> Each year, more than 300,000 newborn babies may have an increased risk of learning disabilities due to *in utero* exposure to mercury compounds.<sup>3</sup>

Americans do not need to live with these dangerous risks. Pollution controls that dramatically reduce mercury emissions are widely available, and are already being used at many power plants. But, until the public and policymakers hold the electric power industry to its promises to shut down or clean up the nation's oldest and dirtiest plants, Americans will continue to bear unnecessary health and environmental costs.

This report ranks the top fifty power plant polluters for mercury, according to:

- *Total* amount emitted, which measures the total pounds of mercury reported by each power plant, and
- *Emission rate*, which measures the amount of pollution per gigawatt-hour of electricity generated.

## Data

This report contains mercury emissions data obtained from EPA's Toxics Release Inventory (TRI), and electric generation data obtained from EPA's Clean Air Markets (also known as the Acid Rain program) databases.

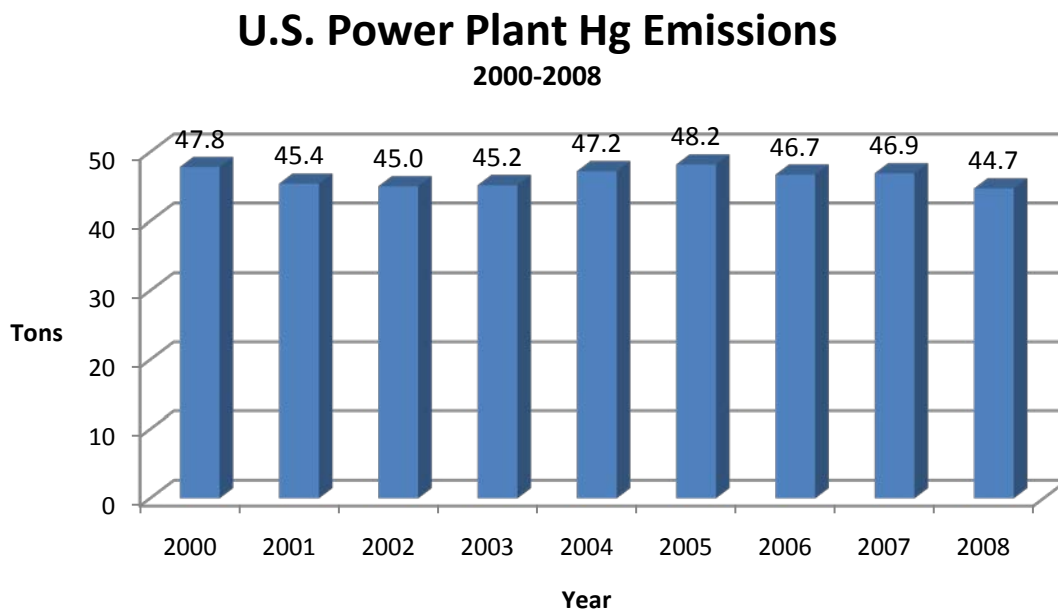
In 2008, the U.S. EPA's Toxics Release Inventory tracked mercury emissions from approximately 470 electric generating facilities across the United States and its territories. (There are hundreds of power plants that release less than 10 pounds of mercury per year that are not included in the TRI database.) This report analyzes mercury emissions reported by the electric power sector to TRI. TRI data are publicly available on EPA's website at <http://www.epa.gov/triexplorer>. All data is self-reported by the utility industry to EPA.

The U.S. EPA's Clean Air Markets data is a publicly accessible repository for emissions and other operating information from the utility industry, and includes more than 1,000 power plants regulated under the EPA's Acid Rain and NO<sub>x</sub> SIP Call programs. Additional information on these programs can be found on EPA's Clean Air Markets web page at <http://www.epa.gov/airmarkets/>. The electric utility industry's self-reported emissions and electric generation data can be found at <http://camddataandmaps.epa.gov/gdm/>.

## Highlights

The top 50 power plant mercury emitters decreased mercury emissions a paltry 0.26 percent, and 27 out of the top 50 mercury emitters actually increased their emissions, from 2007 levels.

Overall, power plant mercury emissions from electric utilities decreased 4.71 percent from 2007 to 2008, at the same time that gross power generation declined roughly 2 percent.<sup>4</sup> This slow progress is nowhere near the levels that would be achieved if all plants installed modern pollution controls. The nation's power plants are not even close to meeting the levels that EPA forecasted under a weak Bush Administration power plant mercury rule that was subsequently thrown out by a federal court.<sup>5</sup>



### In addition:

- More than half of the nation's top 50 power plant mercury emitters actually increased emissions as compared to 2007. (See Table 1.)

- Power plant mercury emissions have actually increased as compared to year 2000 (the first year this data was reported) in several states, including Arkansas, Arizona, Georgia, Iowa, Illinois, Kansas, Missouri, North Dakota, Texas, and others. (See Table 3.)
- Texas power plants claim five out of the top 10 spots among the nation's highest mercury emitters. (See Table 1.)
- Dallas-based Luminant (formerly TXU) has three of the nation's top five largest mercury emitters, in terms of total pounds emitted, all operating in East Texas. Luminant's Big Brown power plant reported a 32.89 percent increase from 2007 to 2008. (See Table 1.)
- In Texas, just four Luminant power plants – Martin Lake, Monticello, Big Brown, and Sandow 4 – reported 5,259 pounds of mercury emissions in 2008, or almost 6 percent of all mercury reported nationwide. (See Table 1.) Two new Luminant plants currently under construction in Texas – Oak Grove and Sandow 5 – are expected to come online in 2010 and are permitted to emit up to 1,632 pounds of mercury per year.<sup>6</sup>
- Six Southern Company plants in Georgia and Alabama are ranked among the top 50 power plant mercury emitters for overall mercury emissions. (See Table 1.)
- Six American Electric Power (AEP) plants in Texas, Ohio, Indiana and West Virginia are ranked among the top 50 mercury emitters. (See Table 1.)
- AEP's Gavin Power Plant in Ohio emitted 937 pounds of mercury in 2008, a 115.4 percent increase from 2007. (See Table 1.) This drastic increase in mercury emissions appears to be due largely to a change in the coal burned at the plant in 2008.<sup>7</sup>
- NRG's Limestone County, Texas plant emitted 1,251 pounds of mercury in 2008, a 4.55 percent increase over its reported 2007 emissions. (See Table 1.) NRG is currently constructing a third coal-fired boiler at this plant.
- Southern Company, Luminant, Reliant (now called RRI Energy), and Ameren each have four power plants on the list of Top 50 Power Plant Mercury Emitters ranked by pounds of mercury emitted per gigawatt-hour generated. NRG and American Electric Power each have three power plants on the list (See Table 2).

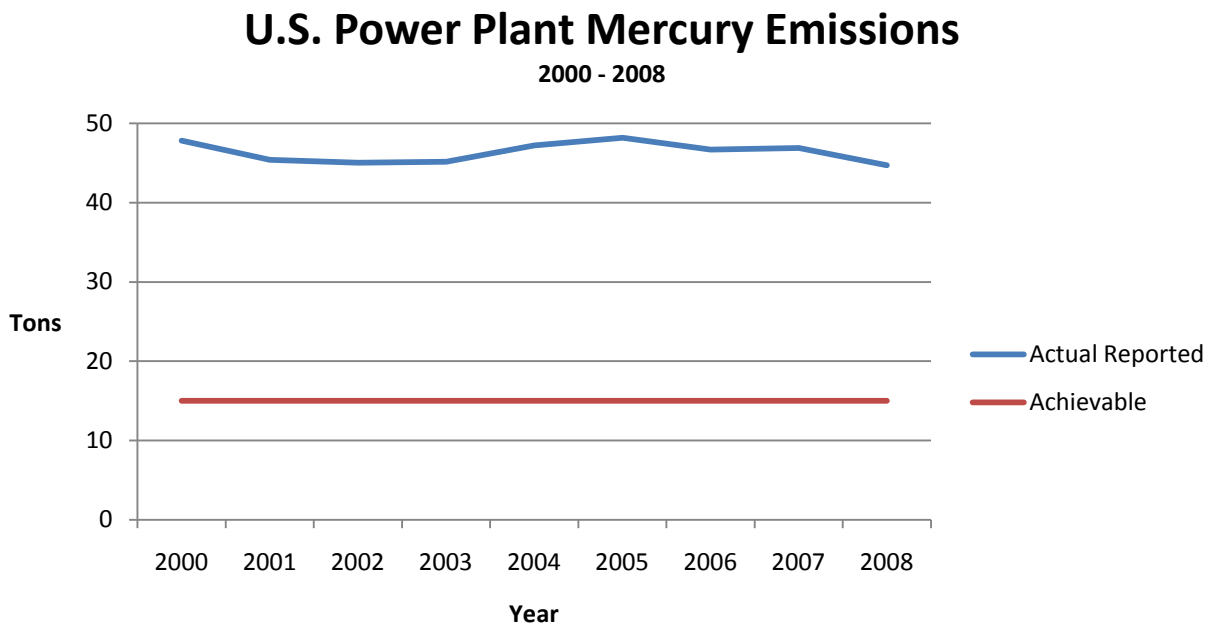
### **Mercury Removal is Achievable**

Sorbent injection, which can achieve mercury reductions up to 90 percent from coal-fired power plants, has been proven by more than 30 full scale demonstrations performed by the U.S. Department of Energy, Electric Power Research Institute, and the utility industry.<sup>8</sup> Existing power plants can be retrofitted with sorbent injection with little or no downtime and with a capital cost of between \$1 and \$3 per megawatt hour.<sup>9</sup> In addition, mercury can be significantly

reduced as a “co-benefit” of pollution controls for other key pollutants like particulate matter, sulfur dioxide, and ozone-causing nitrogen oxides. Mercury is removed as a co-benefit of controlling these pollutants through the use of fabric filters, sulfur dioxide scrubbers, and selective catalytic reduction.<sup>10</sup>

Years of inaction and delay have prevented Americans from enjoying the power plant mercury cleanup that is required by the Clean Air Act. In 1990, Congress passed the Clean Air Act amendments that set in motion EPA’s requirement to regulate toxic emissions from power plants. But, in 2005, EPA backed away from a protective power plant mercury regulation and instead adopted a weak cap-and-trade scheme, a move that a federal Court of Appeals later overturned.<sup>11</sup>

As shown in the chart below, today’s power plant mercury emissions levels are no cause for celebration. When EPA adopted its weak cap-and-trade power plant mercury rule, during the Bush administration, the agency predicted that power plant mercury emissions would drop to between 31 and 34 tons per year by 2010. EPA also concluded that the use of available pollution controls aimed at reducing soot and smog pollution could reduce mercury by 70 percent, to 15 tons per year, and that even stricter cleanup requirements could reduce mercury by 90 percent, to 5 tons per year. The bottom line: Power plant mercury emissions remain unnecessarily high; emissions are significantly higher than the levels that would be achieved if power plants were required to install currently available pollution control technology like bag-houses, scrubbers, and sorbent controls.<sup>12</sup>



## Tables and Appendices

**Table 1, *Top 50 US Power Plant Mercury Emitters (by total pounds of mercury emitted)***, ranks the most polluting coal-fired power plants according to the total amount of mercury emitted in 2008. Table 1 represents the top fifty largest power plant mercury emitters out of 467 power plants that reported mercury emissions to the TRI in 2008.

**Table 2, *Top 50 US Power Plant Mercury Emitters (by pounds of mercury per gigawatt-hour)***, takes into account the relative size of each power plant by ranking the top 50 mercury emitters based on mercury pollution *per unit of electricity generated*. Table 2 contains mercury emissions data obtained from TRI, and gross electric generation data obtained from EPA's Clean Air Markets database, for each power plant ranked. Table 2 ranks the top fifty highest emitters, based on pounds per gigawatt-hour, out of 260 large power plants (i.e. those plants that reported generating at least 2,000 gross gigawatt-hours) in EPA's Clean Air Markets database.

Table 2 confirms that the majority of the power plants listed in Table 1 are indeed the "worst of the worst" in terms of mercury emissions. Table 2 also highlights power plants that are not among the largest overall sources of mercury pollution, but, nevertheless, emit mercury at disproportionately high rates compared to other power plants.

**Table 3, *Power Plant Mercury Emissions by State (2000 – 2008)***, shows the total mercury emissions from coal-fired power plants from 2000-2008, by state.

**Appendix A, *TRI 2008 Electric Utilities – Total Pounds of Mercury Emitted***, lists all 467 facilities that were ranked for Table 1. These 467 facilities are all electric utilities that reported mercury emissions to the TRI in 2008, the latest year for publicly available data. Appendix A is sorted by state, and contains company self-reported mercury emissions for 2007 and 2008.

**Appendix B, *All TRI 2008 Electric Utilities Reporting At Least 2,000 Gigawatt-hours***, lists all 260 facilities that were ranked for Table 2. Appendix B is comprised of all electric utilities that reported mercury emissions to the TRI in 2008, that also reported generating at least 2,000 (gross) gigawatt-hours according to EPA's Clean Air Markets data. Appendix B is sorted by state.

**Table 1: Top 50 US Power Plant Mercury Emitters - by Total Pounds Emitted**

Rank	State	County	Owner	Facility	2008 Hg (lbs)	2007 Hg (lbs)	Δ
1	TX	Rusk	Luminant	Martin Lake	1,764.00	1,687.00	4.56%
2	TX	Freestone	Luminant	Big Brown	1,596.00	1,201.00	32.89%
3	GA	Monroe	Southern Company	Scherer	1,589.30	1,582.40	0.44%
4	MO	Franklin	Ameren	Labadie	1,442.20	1,518.00	-4.99%
5	TX	Titus	Luminant	Monticello	1,427.00	1,668.00	-14.45%
6	TX	Limestone	NRG	Limestone	1,251.00	1,196.50	4.55%
7	AL	Jefferson	Southern Company	Miller	1,158.00	1,957.80	-40.85%
8	MI	Monroe	DTE Energy	Monroe	1,147.00	929.30	23.43%
9	TX	Harrison	American Electric Power	H W Pirkey	1,039.00	1,080.00	-3.80%
10	PA	Armstrong	American Electric Power	Keystone	1,000.00	846.40	18.15%
11	IN	Spencer	Reliant (RRI Energy)	Rockport	962.00	861.00	11.73%
12	OH	Gallia	American Electric Power	Gavin	937.00	435.00	115.40%
13	MT	Rosebud	PPL	Colstrip	910.00	890.00	2.25%
14	OH	Coshocton	American Electric Power	Conesville	898.00	1,004.00	-10.56%
15	TX	Fort Bend	NRG	W A Parish	889.20	963.90	-7.75%
16	AL	Shelby	Southern Company	Gaston	848.80	1,174.90	-27.76%
17	PA	Greene	Allegheny Energy	Hatfields Ferry	842.00	724.00	16.30%
18	LA	Pointe Coupee	NRG	Big Cajun 2	840.00	800.00	5.00%
19	ND	McLean	Great River Energy	Coal Creek	798.60	851.10	-6.17%
20	PA	Clearfield	Reliant (RRI Energy)	Shawville	760.00	723.00	5.12%
21	AL	Walker	Southern Company	Gorgas	741.50	642.60	15.39%
22	WV	Putnam	American Electric Power	Amos	710.00	766.00	-7.31%
23	GA	Bartow	Southern Company	Bowen	679.20	944.60	-28.10%
24	MO	Jefferson	Ameren	Rush Island	669.40	533.70	25.43%
25	KS	Pottawatomie	Westar Energy	Jeffrey Energy Center	661.10	736.80	-10.27%
26	IL	Jasper	Ameren	Newton	655.10	520.90	25.76%
27	ND	Oliver	Minnkota Power Coop	Milton R Young	629.00	564.00	11.52%
28	WY	Platte	Basin Electric Power Coop	Laramie River	620.00	660.00	-6.06%
29	AZ	Coconino	Salt River Project	Navajo	602.00	609.00	-1.15%
30	WI	Columbia	Alliant	Columbia	593.00	487.00	21.77%
31	MN	Sherburne	Xcel	Sherburne	591.30	1,043.00	-43.31%
32	AR	Jefferson	Entergy	White Bluff	584.00	518.00	12.74%
33	AR	Independence	Entergy	Independence	582.00	596.00	-2.35%
34	WI	Kenosha	Wisconsin Energy (WE Energies)	Pleasant Prairie	579.80	535.50	8.27%
35	WV	Monongalia	Allegheny Energy	Fort Martin	572.00	436.00	31.19%
36	LA	Calcasieu	Entergy	Nelson	557.20	403.20	38.20%
37	MD	Anne Arundel	Constellation Energy	Brandon Shores / Herbert Wagner	550.00	550.00	0.00%
38	NM	San Juan	Arizona Public Service	Four Corners	535.00	540.00	-0.93%
39	PA	Indiana	Edison International	Homer City	532.87	628.27	-15.18%
40	ND	Mercer	Basin Electric Power Coop	Antelope Valley	530.00	570.00	-7.02%
41	IN	Jasper	NiSource	Schahfer	524.00	495.00	5.86%
42	TX	Atascosa	San Miguel Electric Cooperative	San Miguel	518.00	499.00	3.81%
43	IN	Pike	AES	Petersburg	510.10	540.30	-5.59%
44	OH	Jefferson	FirstEnergy	Sammis	498.00	420.00	18.57%
45	KS	Linn	Great Plains Energy	La Cygne	497.00	486.00	2.26%
46	IL	Christian	Dominion	Kincaid	490.00	430.00	13.95%
47	WV	Marshall	American Electric Power	Kammer / Mitchell	489.00	348.00	40.52%
48	AZ	Apache	Salt River Project	Coronado	482.00	556.00	-13.31%
49	TN	Roane	Tennessee Valley Authority	Kingston	480.00	480.00	0.00%
50	AL	Mobile	Southern Company	Barry	479.00	711.00	-32.63%
<b>Total</b>					<b>39,240.67</b>	<b>39,343.17</b>	<b>-0.26%</b>



**Table 2: Top 50 US Power Plant Mercury Emitters - by Pounds per Gigawatt-Hour**

Rank	State	County	Owner	Facility	2008 Hg (lbs)	Electric Generation (GWh)	lbs of Hg per GWh
1	TX	Harrison	American Electric Power	H W Pirkey	1,039.00	5,015.84	0.2071
2	PA	Clearfield	Reliant (RRI Energy)	Shawville	760.00	3,723.16	0.2041
3	TX	Freestone	Luminant	Big Brown	1,596.00	8,962.69	0.1781
4	TX	Atascosa	San Miguel Electric Cooperative	San Miguel	518.00	3,042.98	0.1702
5	WY	Campbell	Black Hills Corp	Neil Simpson Complex	284.00	2,371.92	0.1197
6	TX	Milam	Luminant	Sandow	472.00	4,093.55	0.1153
7	ND	Mercer	Otter Tail Power	Coyote	361.30	3,180.28	0.1136
8	TX	Robertson	Optim Energy	Twin Oaks	299.20	2,712.63	0.1103
9	ND	Oliver	Minnkota Power Coop	Milton R Young	629.00	5,888.30	0.1068
10	LA	Calcasieu	Entergy	Nelson	557.20	5,324.64	0.1046
11	KS	Finney	Sunflower Electric Power Corporation	Holcomb	300.00	2,996.94	0.1001
12	AL	Greene	Southern Company	Greene County	351.70	3,759.39	0.0936
13	TX	Rusk	Luminant	Martin Lake	1,764.00	19,200.58	0.0919
14	TX	Titus	Luminant	Monticello	1,427.00	15,915.32	0.0897
15	ND	Mclean	Great River Energy	Coal Creek	798.60	8,910.17	0.0896
16	NE	Otoe	Omaha Public Power District	Nebraska City	470.00	5,265.44	0.0893
17	OH	Lorain	Reliant (RRI Energy)	Avon Lake	250.00	2,804.98	0.0891
18	AL	Walker	Southern Company	Gorgas	741.50	8,368.87	0.0886
19	OH	Coshocton	American Electric Power	Conesville	898.00	10,137.68	0.0886
20	NE	Douglas	Omaha Public Power District	N. Omaha Station	339.00	3,828.99	0.0885
21	WI	Brown	Integritys	Pulliam	200.00	2,306.26	0.0867
22	TX	Limestone	NRG	Limestone	1,251.00	14,753.70	0.0848
23	WV	Monongalia	Allegheny Energy	Fort Martin	572.00	7,153.23	0.0800
24	MO	Franklin	Ameren	Labadie	1,442.20	18,337.38	0.0786
25	IA	Wapello	Alliant	Ottumwa	353.80	4,522.44	0.0782
26	ND	Mercer	Basin Electric Power Coop	Antelope Valley	530.00	6,881.20	0.0770
27	WI	Columbia	Alliant	Columbia	593.00	7,730.45	0.0767
28	MS	Lamar	S. Miss. Electric Power Assoc.	Morrow	210.91	2,756.17	0.0765
29	MO	St. Louis (City)	Ameren	Meramec	472.50	6,245.99	0.0756
30	OK	Choctaw	Western Farmers Electric Coop	Hugo	252.86	3,370.27	0.0750
31	IL	Jasper	Ameren	Newton	655.10	8,973.71	0.0730
32	MO	Jefferson	Ameren	Rush Island	669.40	9,250.24	0.0724
33	TX	Grimes	Texas Municipal Power Agency	Gibbons Creek	275.00	3,803.47	0.0723
34	PA	Greene	Allegheny Energy	Hatfields Ferry	842.00	11,664.42	0.0722
35	AL	Shelby	Southern Company	Gaston	848.80	12,077.24	0.0703
36	WI	Kenosha	Wisconsin Energy (WE Energies)	Pleasant Prairie	579.80	8,430.47	0.0688
37	AZ	Apache	Salt River Project	Coronado	482.00	7,029.54	0.0686
38	MI	Bay	CMS Energy	Karn	164.00	2,394.53	0.0685
39	IN	Warrick	Vectren	Culley	138.20	2,065.61	0.0669
40	PA	Armstrong	American Electric Power	Keystone	1,000.00	14,972.50	0.0668
41	MO	Scott	City of Sikeston, Missouri	Sikeston	134.00	2,010.79	0.0666
42	ND	Mercer	Basin Electric Power Coop	Leland Olds	320.00	4,864.10	0.0658
43	KY	Mason	East Kentucky Power Coop	Spurlock	340.00	5,380.51	0.0632
44	NY	Chautauqua	NRG	Dunkirk	242.00	3,914.33	0.0618
45	GA	Monroe	Southern Company	Scherer	1,589.30	25,727.56	0.0618
46	LA	Pointe Coupee	NRG	Big Cajun 2	840.00	13,624.20	0.0617
47	IL	Christian	Dominion	Kincaid	490.00	7,970.02	0.0615
48	OR	Morrow	Portland General Electric	Boardman	261.80	4,264.59	0.0614
49	PA	Northampton	Reliant (RRI Energy)	Portland	140.00	2,290.20	0.0611
50	PA	Allegheny	Reliant (RRI Energy)	Cheswick	160.00	2,635.21	0.0607

**Table 3: Mercury Emissions (in Pounds) by State  
2000-2008**

<b>State</b>	<b>2000</b>	<b>2001</b>	<b>2002</b>	<b>2003</b>	<b>2004</b>	<b>2005</b>	<b>2006</b>	<b>2007</b>	<b>2008</b>
AK	34	57	27	32	39	34	35	18	18
AL	4,545	3,880	3,931	4,398	5,462	5,977	5,607	5,702	4,229
AR	803	794	1,221	962	1,187	1,173	1,203	1,246	1,300
AZ	1,391	1,258	1,561	1,686	1,555	1,699	1,415	1,839	1,732
CA	33	63	16	18	54	52	56	63	61
CO	345	357	356	374	855	875	1,026	962	899
CT	98	102	100	102	105	108	106	94	75
DC	8	0	0	1	0	0	0	0	0
DE	403	220	266	534	375	323	324	300	271
FL	2,188	2,383	2,424	2,725	1,903	2,105	2,026	1,687	1,539
GA	3,613	2,549	2,749	2,805	3,783	4,279	4,183	4,491	3,776
HI	39	104	54	131	130	129	60	51	48
IA	1,984	2,079	2,132	2,453	2,477	2,408	2,353	2,435	2,425
IL	4,169	4,011	4,318	4,125	4,190	4,164	4,010	4,199	4,482
IN	5,741	5,460	4,647	4,885	5,021	5,047	4,876	4,545	4,471
KS	1,437	1,820	2,048	2,126	1,839	2,420	2,416	2,015	1,926
KY	3,594	3,796	3,540	3,486	3,649	3,382	3,542	3,261	3,055
LA	550	1,381	1,517	1,434	1,643	1,610	1,654	1,568	1,770
MA	292	234	190	205	235	211	177	136	97
MD	1,782	1,667	1,899	1,658	1,620	1,627	1,381	1,254	1,339
ME	0	0	0	0	0	0	0	0	0
MI	2,822	2,736	2,581	2,462	2,950	2,933	3,060	3,069	3,448
MN	1,505	1,457	1,572	1,628	1,691	1,713	1,712	1,689	1,193
MO	2,625	2,989	3,084	3,289	3,326	4,041	4,154	4,107	4,198
MS	631	548	651	802	885	690	834	724	669
MT	928	983	875	985	1,010	1,030	1,001	1,061	1,063
NC	2,828	2,955	3,434	3,037	2,909	3,051	3,202	3,207	1,961
ND	2,206	2,276	2,364	2,512	2,438	2,512	2,576	2,820	2,741
NE	499	405	414	389	1,139	921	961	1,095	1,227
NH	31	29	16	136	141	141	140	150	170
NJ	565	445	477	450	373	395	333	424	137
NM	1,237	2,014	1,208	1,339	1,404	1,317	1,110	1,039	792
NV	373	547	306	271	169	138	100	100	125
NY	1,175	1,123	1,191	898	772	708	740	796	678
OH	8,381	8,034	7,353	7,104	6,578	6,748	6,285	6,074	5,680
OK	1,082	1,031	1,254	1,380	1,341	1,417	1,345	1,292	1,373
OR	202	217	137	210	151	281	149	263	262
PA	8,631	6,749	6,845	6,783	6,646	6,284	5,222	5,811	5,659
PR	214	172	212	230	225	283	341	290	246
RI	0	0	0	0	0	0	0	0	0
SC	704	775	673	576	1,025	994	934	870	800
SD	196	214	263	213	208	168	164	147	241
TN	2,890	2,420	2,130	2,023	2,020	1,990	2,120	2,080	2,000
TX	9,684	9,263	10,086	9,349	10,815	11,225	11,004	11,438	11,722
UT	695	658	448	447	509	500	451	422	433
VA	2,695	1,654	1,275	1,326	1,245	1,234	1,137	1,158	1,007
VI	143	166	171	194	193	0	0	0	0
WA	49	35	0	0	0	0	0	373	313
WI	2,382	2,339	2,615	2,457	2,505	2,574	2,615	2,235	2,312
WV	5,650	4,793	3,680	3,948	3,797	3,828	3,676	3,583	3,740
WY	1,572	1,587	1,760	1,800	1,844	1,645	1,618	1,654	1,719
<b>Total:</b>	<b>95,642</b>	<b>90,832</b>	<b>90,067</b>	<b>90,376</b>	<b>94,428</b>	<b>96,381</b>	<b>93,431</b>	<b>93,837</b>	<b>89,422</b>

## Endnotes

---

1. See, <http://www.epa.gov/mercury/about.htm>.
2. U.S. EPA's The National Study of Chemical Residues in Lake Fish Tissue. EPA Pub. No. EPA-823-R-09-006. September 2009. Available at <http://www.epa.gov/waterscience/fish/study/data/finalreport.pdf>.
3. Center for Disease Control and Prevention's Morbidity and Mortality Weekly Report (MMWR). November, 5, 2004 /53(43); 1018-1020. *Blood Mercury in Young Children and Childbearing-Aged Women --- United States, 1999-2002*. Available at <http://www.cdc.gov/mmwr/preview/mmwrhtml/mm5343a5.htm>.
4. Data is from U.S. EPA's Clean Air Markets gross generation data for coal-fired power plants.
- 5 See, U.S. EPA, *Benefit Analysis for the Section 112 Utility Rule*, Table 2-12 (Forecast Mercury Emissions under the Proposed Section 112 MACT, and the Proposed Section 111 Rule and the Proposed IAQR), available at: <http://www.epa.gov/ttn/atw/utility/proposalutilitymactbenefitsanalysisfinal.pdf>.
6. Texas Commission on Environmental Quality State Air Quality Permit No. 48437 (Sandow Unit 5, 192 lbs/yr); TCEQ State Air Quality Permit No. 76474 & PSD-TX-1056 (Oak Grove Units 1 and 2, 1440 lbs/yr).
7. Fuel data is from the Department of Energy's Energy Information Administration Electricity Databases. Form EIA-906/920/923 was used to obtain fuel data for 2007 and form EIA-923 was used to obtain fuel data for 2008.
8. Institute of Clean Air Companies, *Sorbent Injection Technology for Control of Mercury Emissions From Coal-Fired Boilers*. Available at [http://www.icac.com/files/public/ICAC\\_Sorbent\\_Injection\\_Fact\\_Sheet\\_051506.pdf](http://www.icac.com/files/public/ICAC_Sorbent_Injection_Fact_Sheet_051506.pdf).
9. *Id.*
10. Institute of Clean Air Companies Enhancing Mercury Control on Coal-Fired Boilers with SCR, Oxidation Catalyst and FGD. Available at [http://www.icac.com/files/public/Hg\\_FactSheet\\_SCR-FGD\\_051606.pdf](http://www.icac.com/files/public/Hg_FactSheet_SCR-FGD_051606.pdf).
11. *New Jersey v. Environmental Protection Agency*, 517 F.3d 574 (D.C. Cir. 2008).
12. See, EPA's 1997 *Mercury Study Report to Congress (Vol. VIII,) An Evaluation of Mercury Control Technologies and Costs* (Table 5-3), <http://www.epa.gov/ttn/oarpg/t3/reports/volume8.pdf>. In that report, EPA estimates that U.S. power plants would emit only 5 tons per year if all plants applied activated carbon injection. See also, *EPA's Roadmap for Mercury*, <http://www.epa.gov/mercury/pdfs/FINAL-Mercury-Roadmap-6-29.pdf>, July 2006 (p. 30). In that report, EPA concludes that the (now vacated) "Clean Air Mercury Rule" (CAMR) would reduce emissions from 48 tons to 31 tons beginning in 2010, and declining thereafter until emissions are reduced to 15 tons, representing a 70 percent reduction from 1999 baseline levels. See also, 69 Fed. Reg. 4652, 4699, National Emission Standards for Hazardous Air Pollutants; and, in the Alternative, Proposed Standards of Performance for New and Existing Stationary Sources: Electric Utility Steam Generating Units; Proposed Rule (Jan. 30, 2004) (15 tons per year "reflects a level of Hg emissions reduction that almost certainly exceeds the level that would be achieved through the installation of FGD and SCR needed to meet the SO<sub>2</sub> and NO<sub>x</sub> caps in the proposed IAQR."). See also, 70 Fed. Reg. 28606, 28620, Standards of Performance for New and Existing Stationary Sources: Electric Utility Steam Generating Units; Final Rule (May 18, 2005) ("EPA has, therefore, set the level of the 2010 cap on Hg emissions on the basis of the reductions in Hg emissions achievable as co-benefits of efforts to reduce emissions of SO<sub>2</sub> and NO<sub>x</sub> in accordance with CAIR.").

**Appendix A: TRI 2008 Electric Utilities  
Total Pounds of Mercury Emitted (2007\*-2008)**

State	County	Owner	Facility	2008	2007	Δ
AK	Fairbanks North Star	Aurora Energy	Chena	13.00	13.00	0.00%
AK	Denali	Golden Valley Electric Association	Healy	4.90	4.90	0.00%
AL	Mobile	Southern Company	Barry	479.00	711.00	-32.63%
AL	Colbert	Tennessee Valley Authority	Colbert	230.00	260.00	-11.54%
AL	Etowah	Southern Company	Gadsden	156.70	129.70	20.82%
AL	Shelby	Southern Company	Gaston	848.80	1,174.90	-27.76%
AL	Walker	Southern Company	Gorgas	741.50	642.60	15.39%
AL	Greene	Southern Company	Greene County	351.70	396.50	-11.30%
AL	Washington	PowerSouth Energy Coop	Lowman	31.00	35.60	-12.92%
AL	Jefferson	Southern Company	Miller	1,158.00	1,957.80	-40.85%
AL	Mobile	Mobile Energy Services Co.	Mobile Energy Services	22.00	30.00	-26.67%
AL	Jackson	Tennessee Valley Authority	Widows Creek	210.00	270.00	-22.22%
AR	Benton	American Electric Power	Flint Creek	134.00	132.00	1.52%
AR	Independence	Entergy	Independence	582.00	596.00	-2.35%
AR	Jefferson	Entergy	White Bluff	584.00	518.00	12.74%
AZ	Cochise	Arizona Electric Power Cooperative	Apache	175.80	129.00	36.28%
AZ	Navajo	Arizona Public Service	Cholla	280.00	300.00	-6.67%
AZ	Apache	Salt River Project	Coronado	482.00	556.00	-13.31%
AZ	Pima	Unisource	H. Wilson Sundt	3.88	4.27	-9.13%
AZ	Coconino	Salt River Project	Navajo	602.00	609.00	-1.15%
AZ	Apache	Salt River Project	Springerville	188.00	181.00	3.87%
CA	San Bernardino	Red Hawk	ACE Cogeneration	2.56	2.55	0.39%
CA	Kern	Millennium Energy	Mt. Poso	1.53	1.41	8.51%
CA	San Joaquin	Posdef Power Co	Posdef Power Co	54.85	57.30	-4.28%
CA	Kern	Constellation Energy	Rio Bravo Jasmin	0.90	0.86	4.65%
CA	Kern	Constellation Energy	Rio Bravo Poso	0.95	0.96	-1.04%
CO	Denver	Xcel	Arapahoe	65.90	71.70	-8.09%
CO	Mesa	Xcel	Cameo	8.18	8.31	-1.56%
CO	Adams	Xcel	Cherokee	131.00	138.00	-5.07%
CO	Fremont	Black Hills Corp	Clark	8.00	7.00	14.29%
CO	Pueblo	Xcel	Comanche	134.60	139.70	-3.65%
CO	Moffat	Tri-State Generation and Transmission	Craig	130.00	130.00	0.00%
CO	Routt	Xcel	Hayden	111.00	126.00	-11.90%
CO	El Paso	City of Colorado Springs, Colorado	Martin Drake	22.00	23.36	-5.82%
CO	Montrose	Tri-State Generation and Transmission	Nucla	13.80	13.60	1.47%
CO	Morgan	Xcel	Pawnee	131.00	162.00	-19.14%
CO	Larimer	Platte River Power Authority	Rawhide	63.00	63.00	0.00%
CO	El Paso	City of Colorado Springs, Colorado	Ray Nixon	40.10	29.30	36.86%
CO	Boulder	Xcel	Valmont	40.10	43.60	-8.03%
CT	Fairfield	Public Service Enterprise Group	Bridgeport Harbor	26.34	47.34	-44.36%
CT	New London	AES	Thames	49.00	47.00	4.26%
DE	Kent	NRG	Dover	8.90	8.80	1.14%
DE	New Castle	Conectiv Energy	Edge Moor / Hay Road	140.10	174.00	-19.48%
DE	Sussex	NRG	Indian River	122.00	117.00	4.27%
FL	Hillsborough	TECO Energy	Big Bend	140.00	160.00	-12.50%
FL	Duval	Pacific Gas & Electric	Cedar Bay Cogeneration	28.00	30.00	-6.67%
FL	Escambia	Southern Company	Crist	233.50	203.50	14.74%
FL	Citrus	Progress Energy	Crystal River	450.00	470.00	-4.26%
FL	Alachua	City of Gainesville, Florida	Deerhaven	78.00	78.00	0.00%
FL	Hernando	Rinker Materials	Florida Crushed Stone Co. Cement	68.00	23.00	195.65%
FL	Lee	Florida Power & Light	Fort Myers	17.63	17.50	0.72%
FL	Martin	Pacific Gas & Electric	Indiantown	33.90	36.00	-5.83%
FL	Bay	Southern Company	Lansing Smith	76.20	57.50	32.52%

**Appendix A: TRI 2008 Electric Utilities  
Total Pounds of Mercury Emitted (2007\*-2008)**

State	County	Owner	Facility	2008	2007	Δ
FL	Broward	Florida Power & Light	Lauderdale	28.09	10.80	160.09%
FL	Manatee	Florida Power & Light	Manatee	17.48	17.00	2.82%
FL	Martin	Florida Power & Light	Martin	29.97	31.00	-3.32%
FL	Polk	City of Lakeland, Florida	McIntosh	18.10	17.40	4.02%
FL	Polk	TECO Energy	Polk	7.98	8.50	-6.12%
FL	Volusia	Florida Power & Light	Sanford	20.55	22.80	-9.87%
FL	Jackson	Southern Company	Scholz	9.80	23.30	-57.94%
FL	Putnam	Seminole Electric Cooperative	Seminole	87.00	94.00	-7.45%
FL	Duval	JEA	St Johns / Northside	182.00	173.00	5.20%
FL	Miami-Dade	Florida Power & Light	Turkey Point	12.72	12.00	6.00%
GA	Bartow	Southern Company	Bowen	679.20	944.60	-28.10%
GA	Putnam	Southern Company	Branch	418.40	464.10	-9.85%
GA	Floyd	Southern Company	Hammond	106.80	224.70	-52.47%
GA	Chatham	Southern Company	Kraft	41.40	30.20	37.09%
GA	Cobb	Southern Company	McDonough	144.10	156.70	-8.04%
GA	Effingham	Southern Company	McIntosh (Effingham Plant)	37.00	36.70	0.82%
GA	Dougherty	Southern Company	Mitchell	25.90	27.70	-6.50%
GA	Monroe	Southern Company	Scherer	1,589.30	1,582.40	0.44%
GA	Carroll	Southern Company	Wansley	317.60	508.00	-37.48%
GA	Coweta	Southern Company	Yates	416.50	516.00	-19.28%
HI	Honolulu	AES	Hawaii	0.89	1.36	-34.56%
HI	Honolulu	Hawaiian Electric Industries	Kahe	25.00	39.00	-35.90%
HI	Honolulu	Public Service Enterprise Group	Kalaeloa Cogeneration	12.00	12.00	0.00%
HI	Honolulu	Hawaiian Electric Industries	Waiiau	10.00	12.00	-16.67%
IA	Story	City of Ames, Iowa	Ames	19.80	25.30	-21.74%
IA	Des Moines	Alliant	Burlington	128.90	121.20	6.35%
IA	Pottawattamie	MidAmerican Energy	Council Bluffs (Walter Scott Jr)	392.00	430.00	-8.84%
IA	Dubuque	Alliant	Dubuque	10.70	11.70	-8.55%
IA	Muscatine	Central Iowa Power Coop	Fair	21.81	23.48	-7.11%
IA	Woodbury	MidAmerican Energy	George Neal North	380.00	380.00	0.00%
IA	Woodbury	MidAmerican Energy	George Neal South	280.00	360.00	-22.22%
IA	Allamakee	Alliant	Lansing	222.00	203.40	9.14%
IA	Louisa	MidAmerican Energy	Louisa	320.00	370.00	-13.51%
IA	Clinton	Alliant	Milton Kapp	56.80	124.00	-54.19%
IA	Muscatine	City of Muscatine, Iowa	Muscatine	160.00	165.00	-3.03%
IA	Wapello	Alliant	Ottumwa	353.80	290.00	22.00%
IA	Linn	Alliant	Prairie Creek	15.90	34.40	-53.78%
IA	Scott	MidAmerican Energy	Riverside	40.00	45.00	-11.11%
IA	Linn	Alliant	Sixth Street	1.60	5.70	-71.93%
IA	Marshall	Alliant	Sutherland	21.70	22.40	-3.13%
IA	Clay	Corn Belt Coop	Wisdom	0.10	0.37	-72.97%
IL	Randolph	Dynegy	Baldwin	433.60	449.20	-3.47%
IL	Montgomery	Ameren	Coffeen	289.80	236.30	22.64%
IL	Cook	Edison International	Crawford	101.93	117.29	-13.10%
IL	Sangamon	City of Springfield, Illinois	Dallman / Lakeside	57.00	61.00	-6.56%
IL	Fulton	Ameren	Duck Creek	30.10	245.40	-87.73%
IL	Peoria	Ameren	Edwards	249.90	228.90	9.17%
IL	Cook	Edison International	Fisk	78.67	69.71	12.85%
IL	Mason	Dynegy	Havana	130.90	145.70	-10.16%
IL	Putnam	Dynegy	Hennepin	58.10	72.50	-19.86%
IL	Crawford	Ameren	Hutsonville	82.80	55.30	49.73%
IL	Will	Edison International	Joliet 9 & 29	324.18	306.12	5.90%
IL	Massac	Ameren	Joppa	359.00	359.10	-0.03%
IL	Christian	Dominion	Kincaid	490.00	430.00	13.95%

**Appendix A: TRI 2008 Electric Utilities  
Total Pounds of Mercury Emitted (2007\*-2008)**

State	County	Owner	Facility	2008	2007	Δ
IL	Williamson	Southern Illinois Coop	Marion	26.00	26.00	0.00%
IL	Morgan	Ameren	Meredosia	63.50	90.90	-30.14%
IL	Jasper	Ameren	Newton	655.10	520.90	25.76%
IL	Pike	Prairie Power	Pearl	0.06	0.08	-25.00%
IL	Tazewell	Edison International	Powerton	404.16	371.65	8.75%
IL	Douglas	Duke / Veolia	Tuscola	16.80	17.40	-3.45%
IL	Vermilion	Dynegy	Vermilion	37.50	37.80	-0.79%
IL	Lake	Edison International	Waukegan	197.30	230.44	-14.38%
IL	Will	Edison International	Will County	284.98	256.73	11.00%
IL	Madison	Dynegy	Wood River	111.00	99.10	12.01%
IN	Porter	NiSource	Bailly	74.00	64.00	15.63%
IN	Posey	Vectren	Brown	164.70	169.40	-2.77%
IN	Vermillion	Duke	Cayuga	191.70	249.50	-23.17%
IN	Jefferson	Ohio Valley Electric Coop	Clifty Creek	388.00	403.00	-3.72%
IN	Warrick	Vectren	Culley	138.20	133.80	3.29%
IN	Morgan	AES	Eagle Valley	53.40	45.30	17.88%
IN	Knox	Duke	Edwardsport	21.90	18.20	20.33%
IN	Pike	Hoosier Energy	Frank Ratts	60.00	63.00	-4.76%
IN	Floyd	Duke	Gallagher	36.50	118.50	-69.20%
IN	Gibson	Duke	Gibson	307.60	363.00	-15.26%
IN	Marion	AES	Harding Street (E W Stout)	153.70	145.70	5.49%
IN	Sullivan	Hoosier Energy	Merom	204.00	175.00	16.57%
IN	La Porte	NiSource	Michigan City	149.00	167.00	-10.78%
IN	Pike	AES	Petersburg	510.10	540.30	-5.59%
IN	Spencer	Reliant (RRI Energy)	Rockport	962.00	861.00	11.73%
IN	Jasper	NiSource	Schahfer	524.00	495.00	5.86%
IN	Lake	Dominion	State Line Plant	105.00	68.00	54.41%
IN	Dearborn	American Electric Power	Tanners Creek	211.00	272.00	-22.43%
IN	Vigo	Duke	Wabash River	191.50	169.70	12.85%
IN	Wayne	City of Richmond, Indiana	Whitewater Valley	24.90	24.08	3.41%
KS	Finney	Sunflower Electric Power Corporation	Holcomb	300.00	320.00	-6.25%
KS	Pottawatomie	Westar Energy	Jeffrey Energy Center	661.10	736.80	-10.27%
KS	Linn	Great Plains Energy	La Cygne	497.00	486.00	2.26%
KS	Douglas	Westar Energy	Lawrence	197.10	184.00	7.12%
KS	Wyandotte	City of Kansas City, Kansas	Nearman Creek	71.50	74.50	-4.03%
KS	Wyandotte	City of Kansas City, Kansas	Quindaro	93.20	108.20	-13.86%
KS	Cherokee	Empire District Electric Company	Riverton	39.00	37.82	3.12%
KS	Shawnee	Westar Energy	Tecumseh	66.70	67.60	-1.33%
KY	Lawrence	American Electric Power	Big Sandy	263.00	286.00	-8.04%
KY	Jefferson	E. ON US	Cane Run	89.90	92.90	-3.23%
KY	Hancock	E. ON US	Coleman	118.20	121.30	-2.56%
KY	Pulaski	East Kentucky Power Coop	Cooper	120.00	170.00	-29.41%
KY	Clark	East Kentucky Power Coop	Dale	44.00	17.00	158.82%
KY	Mercer	E. ON US	E W Brown	221.80	195.90	13.22%
KY	Boone	Duke	East Bend	89.30	103.70	-13.89%
KY	Daviess	City of Owensboro, Kentucky	Elmer Smith	55.00	60.40	-8.94%
KY	Carroll	E. ON US	Ghent	275.70	343.40	-19.71%
KY	Henderson	Big Rivers Electric Corporation	Green / Reid / HMP&L II	237.30	228.10	4.03%
KY	Muhlenberg	E. ON US	Green River	59.80	62.00	-3.55%
KY	Jefferson	E. ON US	Mill Creek	316.00	314.00	0.64%
KY	Muhlenberg	Tennessee Valley Authority	Paradise	340.00	450.00	-24.44%
KY	Mc Cracken	Tennessee Valley Authority	Shawnee	200.00	360.00	-44.44%
KY	Mason	East Kentucky Power Coop	Spurlock	340.00	340.00	0.00%
KY	Trimble	E. ON US	Trimble	158.50	142.60	11.15%

**Appendix A: TRI 2008 Electric Utilities  
Total Pounds of Mercury Emitted (2007\*-2008)**

State	County	Owner	Facility	2008	2007	Δ
KY	Woodford	E. ON US	Tyrone	10.40	11.60	-10.34%
KY	Ohio	E. ON US	Wilson	116.10	121.80	-4.68%
LA	Pointe Coupee	NRG	Big Cajun 2	840.00	800.00	5.00%
LA	De Soto	Cleco	Dolet Hills	230.00	184.00	25.00%
LA	Calcasieu	Entergy	Nelson	557.20	403.20	38.20%
LA	Rapides	Cleco	Rodemacher	143.00	181.00	-20.99%
MA	Bristol	Dominion	Brayton Point	56.00	60.00	-6.67%
MA	Barnstable	Mirant	Canal	3.60	4.70	-23.40%
MA	Hampden	GDF Suez	Mount Tom	23.20	22.20	4.50%
MA	Essex	Dominion	Salem Harbor	8.00	15.00	-46.67%
MA	Bristol	NRG	Somerset	6.23	9.76	-36.17%
MD	Anne Arundel	Constellation Energy	Brandon Shores / Herbert Wagner	550.00	550.00	0.00%
MD	Prince Georges	Mirant	Chalk Point	230.00	220.00	4.55%
MD	Baltimore	Constellation Energy	Crane	110.00	21.20	418.87%
MD	Montgomery	Mirant	Dickerson	109.00	117.00	-6.84%
MD	Charles	Mirant	Morgantown	270.00	240.00	12.50%
MD	Washington	Allegheny Energy	Paul Smith	65.60	81.90	-19.90%
MD	Allegany	AES	Warrior Run	4.00	3.00	33.33%
MI	St Clair	DTE Energy	Belle River	379.34	292.90	29.51%
MI	Ottawa	CMS Energy	Campbell	446.26	353.23	26.34%
MI	Muskegon	CMS Energy	Cobb	94.15	94.89	-0.78%
MI	Ingham	City of Lansing, Michigan	Eckert	146.78	148.62	-1.24%
MI	Hillsdale	Michigan South Central Power Agency	Endicott	15.71	18.71	-16.03%
MI	Ingham	City of Lansing, Michigan	Erickson	78.68	74.78	5.22%
MI	Manistee	CMS Energy / Tondu	Filer City	2.29	2.03	12.81%
MI	Huron	DTE Energy	Harbor Beach	12.52	0.00	-
MI	Ottawa	City of Holland, Michigan	James De Young	4.16	4.16	0.00%
MI	Bay	CMS Energy	Karn	164.00	231.49	-29.15%
MI	Monroe	DTE Energy	Monroe	1,147.00	929.30	23.43%
MI	Marquette	Wisconsin Energy (WE Energies)	Presque Isle	26.80	23.00	16.52%
MI	Wayne	DTE Energy	River Rogue	163.59	147.00	11.29%
MI	Marquette	City of Marquette, Michigan	Shiras	19.00	18.00	5.56%
MI	Ottawa	City of Grand Haven, Michigan	Sims	2.37	2.90	-18.28%
MI	St Clair	DTE Energy	St. Clair	377.56	354.58	6.48%
MI	Wayne	DTE Energy	Trenton Channel	232.22	198.47	17.01%
MI	Ontonagon	Traxys	White Pine	14.04	44.53	-68.47%
MI	Monroe	CMS Energy	Whiting	108.06	115.77	-6.66%
MI	Wayne	City of Wyandotte, Michigan	Wyandotte Municipal	13.16	14.60	-9.86%
MN	Dakota	Xcel	Black Dog	89.40	87.50	2.17%
MN	Itasca	Allete	Boswell	282.15	266.40	5.91%
MN	St Louis	City of Hibbing, Minnesota	Hibbing	13.10	10.40	25.96%
MN	Otter Tail	Otter Tail Power	Hoot Lake	25.40	34.20	-25.73%
MN	Washington	Xcel	King	45.20	16.60	172.29%
MN	St Louis	Allete	Laskin	20.39	22.67	-10.06%
MN	Hennepin	Xcel	Riverside	72.30	99.40	-27.26%
MN	Sherburne	Xcel	Sherburne	591.30	1,043.00	-43.31%
MN	Olmsted	City of Rochester, Minnesota	Silver Lake	3.93	6.03	-34.83%
MN	Cook	Allete	Taconite Harbor	50.30	59.40	-15.32%
MO	Jasper	Empire District Electric Company	Asbury	37.00	26.00	42.31%
MO	Jackson	City of Independence, Missouri	Blue Valley	12.00	8.00	50.00%
MO	Osage	Central Electric Power Coop	Chamois	15.00	16.00	-6.25%
MO	Boone	City of Columbia, Missouri	Columbia Municipal	3.44	3.58	-3.91%
MO	Jackson	Great Plains Energy	Hawthorn	57.00	80.00	-28.75%
MO	Platte	Great Plains Energy	Iatan	208.00	190.00	9.47%

**Appendix A: TRI 2008 Electric Utilities  
Total Pounds of Mercury Emitted (2007\*-2008)**

State	County	Owner	Facility	2008	2007	Δ
MO	Greene	City U of Springfield, Missouri	James River	112.00	74.00	51.35%
MO	Franklin	Ameren	Labadie	1,442.20	1,518.00	-4.99%
MO	Buchanan	Great Plains Energy	Lake Road	19.30	20.00	-3.50%
MO	St. Louis (City)	Ameren	Meramec	472.50	420.10	12.47%
MO	Henry	Great Plains Energy	Montrose	101.00	110.00	-8.18%
MO	New Madrid	Associated Electric Cooperative	New Madrid	160.00	152.00	5.26%
MO	Jefferson	Ameren	Rush Island	669.40	533.70	25.43%
MO	Jackson	Great Plains Energy	Sibley	40.28	89.00	-54.74%
MO	Scott	City of Sikeston, Missouri	Sikeston	134.00	140.00	-4.29%
MO	St Charles	Ameren	Sioux	362.60	404.00	-10.25%
MO	Greene	City of Springfield, Missouri	Southwest	57.00	60.00	-5.00%
MO	Randolph	Associated Electric Cooperative	Thomas Hill	295.00	250.00	18.00%
MS	Jackson	Southern Company	Daniel	224.60	279.50	-19.64%
MS	Leflore	Big Rivers Electric Corporation	Henderson	11.98	2.31	418.61%
MS	Lamar	South Mississippi Electric Power Association	Morrow	210.91	219.11	-3.74%
MS	Choctaw	GDF Suez	Red Hills	56.00	84.00	-33.33%
MS	Harrison	Southern Company	Watson	165.60	163.20	1.47%
MT	Rosebud	PPL	Colstrip	910.00	890.00	2.25%
MT	Yellowstone	PPL	Corette	50.00	60.00	-16.67%
MT	Big Horn	Bicent Power	Hardin	35.70	34.30	4.08%
MT	Richland	MDU Resources	Lewis & Clark	47.00	44.00	6.82%
MT	Rosebud	Colstrip Energy	Rosebud	20.60	22.20	-7.21%
NC	Gaston	Duke	Allen	243.00	295.83	-17.86%
NC	Buncombe	Progress Energy	Asheville	17.00	120.00	-85.83%
NC	Stokes	Duke	Belews Creek	196.60	537.21	-63.40%
NC	Rowan	Duke	Buck	68.30	101.94	-33.00%
NC	Chatham	Progress Energy	Cape Fear	81.00	93.00	-12.90%
NC	Rutherford	Duke	Cliffside	156.60	171.71	-8.80%
NC	Rockingham	Duke	Dan River	44.60	54.04	-17.46%
NC	Edgecombe	Edgecombe Genco	Edgecombe Genco	1.78	31.44	-94.34%
NC	Person	Epcor Power	Epcor Roxboro	7.61	4.19	81.62%
NC	Wayne	Progress Energy	Lee	92.00	130.00	-29.23%
NC	Catawba	Duke	Marshall	245.90	372.62	-34.01%
NC	Person	Progress Energy	Mayo	230.00	240.00	-4.17%
NC	Gaston	Duke	Riverbend	97.40	123.79	-21.32%
NC	Halifax	E. ON US	Roanoke Valley	2.20	2.10	4.76%
NC	Person	Progress Energy	Roxboro	280.00	680.00	-58.82%
NC	Brunswick	Epcor Power	Southport	18.72	20.36	-8.06%
NC	New Hanover	Progress Energy	Sutton	140.00	135.00	3.70%
NC	Robeson	Progress Energy	Weatherspoon	38.00	49.00	-22.45%
ND	Mercer	Basin Electric Power Coop	Antelope Valley	530.00	570.00	-7.02%
ND	Mclean	Great River Energy	Coal Creek	798.60	851.10	-6.17%
ND	Mercer	Otter Tail Power	Coyote	361.30	358.30	0.84%
ND	Morton	MDU Resources	Heskett	33.00	35.00	-5.71%
ND	Mercer	Basin Electric Power Coop	Leland Olds	320.00	240.00	33.33%
ND	Oliver	Minnkota Power Coop	Milton R Young	629.00	564.00	11.52%
ND	Mercer	Great Plains Energy	Stanton	69.00	70.00	-1.43%
NE	Lincoln	State of Nebraska	Gerald Gentleman	260.00	260.00	0.00%
NE	Dodge	City of Fremont, Nebraska	Lon Wright	29.00	29.40	-1.36%
NE	Otoe	Omaha Public Power District	Nebraska City Station	470.00	346.00	35.84%
NE	Douglas	Omaha Public Power District	North Omaha Station	339.00	328.00	3.35%
NE	Hall	City of Grand Island, Nebraska	Platte	39.00	36.00	8.33%
NE	Lancaster	State of Nebraska	Sheldon	40.00	48.00	-16.67%



**Appendix A: TRI 2008 Electric Utilities  
Total Pounds of Mercury Emitted (2007\*-2008)**

State	County	Owner	Facility	2008	2007	Δ
NE	Adams	City of Hastings, Nebraska	Whelan	49.50	48.05	3.02%
NH	Merrimack	Northeast Utilities	Merrimack	160.00	177.00	-9.60%
NH	Rockingham	Northeast Utilities	Newington	0.30	0.40	-25.00%
NH	Rockingham	Northeast Utilities	Schiller	9.70	9.80	-1.02%
NJ	Bergen	Public Service Enterprise Group	Bergen	18.00	37.20	-51.61%
NJ	Salem	Public Service Enterprise Group	Carneys Point	3.14	0.50	528.00%
NJ	Salem	Pepco Holdings	Deepwater	1.20	2.60	-53.85%
NJ	Cape May	Rockland Capital Energy Investments	England	29.40	196.10	-85.01%
NJ	Hudson	Public Service Enterprise Group	Hudson	54.00	87.00	-37.93%
NJ	Union	Public Service Enterprise Group	Linden	15.40	11.70	31.62%
NJ	Gloucester	Public Service Enterprise Group	Logan	2.00	6.30	-68.25%
NJ	Mercer	Public Service Enterprise Group	Mercer	14.30	82.20	-82.60%
NM	Mckinley	Tri-State Generation and Transmission	Escalante	65.00	69.00	-5.80%
NM	San Juan	Arizona Public Service	Four Corners	535.00	540.00	-0.93%
NM	San Juan	PNM Resources	San Juan	192.00	430.00	-55.35%
NV	Humboldt	NV Energy	North Valmy	28.00	28.60	-2.10%
NV	Clark	NV Energy	Reid Gardner	69.00	72.00	-4.17%
NV	Eureka	Newmont Mining	TS Power Plant	27.53	0.00	-
NY	Chautauqua	City of Jamestown, New York	Samuel Carlson	85.00	89.00	-4.49%
NY	Kings	Brooklyn Navy Yard Cogeneration Partners	Brooklyn Navy Yard Cogeneration	22.50	53.30	-57.79%
NY	Tompkins	AES	Cayuga	19.00	13.00	46.15%
NY	Orange	Dynegy	Danskammer	88.80	84.00	5.71%
NY	Chautauqua	NRG	Dunkirk	242.00	222.00	9.01%
NY	Yates	AES	Greenidge	1.00	1.00	0.00%
NY	Erie	NRG	Huntley	154.00	156.00	-1.28%
NY	Rockland	Mirant	Lovett	4.60	20.00	-77.00%
NY	Niagara	US Renewable Group	Niagara	2.30	0.00	-
NY	Monroe	Energy East	Russell	16.00	24.00	-33.33%
NY	Niagara	AES	Somerset	18.00	16.00	12.50%
NY	Onondaga	GDF Suez	Syracuse Cogeneration	0.20	0.20	0.00%
NY	Broome	AES	Westover	25.00	26.00	-3.85%
OH	Ashtabula	FirstEnergy	Ashtabula	32.50	25.20	28.97%
OH	Lorain	Reliant (RRI Energy)	Avon Lake	250.00	259.43	-3.63%
OH	Lucas	FirstEnergy	Bay Shore	87.00	63.20	37.66%
OH	Clermont	Duke	Becjkord	170.40	312.10	-45.40%
OH	Belmont	FirstEnergy	Burger	82.40	123.00	-33.01%
OH	Jefferson	American Electric Power	Cardinal	394.00	552.00	-28.62%
OH	Coshocton	American Electric Power	Conesville	898.00	1,004.00	-10.56%
OH	Tuscarawas	City of Dover, Ohio	Dover Municipal	6.50	0.00	-
OH	Lake	FirstEnergy	Eastlake	347.00	295.00	17.63%
OH	Gallia	American Electric Power	Gavin	937.00	435.00	115.40%
OH	Washington	American Municipal Power - Ohio	Gorsuch	130.00	120.00	8.33%
OH	Butler	City of Hamilton, Ohio	Hamilton Municipal	3.20	3.20	0.00%
OH	Montgomery	DPL	Hutchings	25.00	32.00	-21.88%
OH	Adams	DPL	Killen	45.40	111.00	-59.10%
OH	Gallia	Ohio Valley Electric Coop	Kyger Creek	336.00	345.00	-2.61%
OH	Cuyahoga	FirstEnergy	Lakeshore	49.70	43.00	15.58%
OH	Hamilton	Duke	Miami Fort	170.50	178.90	-4.70%
OH	Washington	American Electric Power	Muskingum River	464.00	400.00	16.00%
OH	Trumbull	Reliant (RRI Energy)	Niles	47.73	183.35	-73.97%
OH	Wayne	City of Orrville, Ohio	Orrville Municipal	30.00	21.00	42.86%
OH	Lake	City of Painesville, Ohio	Painesville Municipal	0.56	24.55	-97.72%
OH	Pickaway	American Electric Power	Picway	57.00	55.00	3.64%

**Appendix A: TRI 2008 Electric Utilities  
Total Pounds of Mercury Emitted (2007\*-2008)**

State	County	Owner	Facility	2008	2007	Δ
OH	Jefferson	FirstEnergy	Sammis	498.00	420.00	18.57%
OH	Richland	City of Shelby, Ohio	Shelby Municipal	4.13	3.84	7.55%
OH	Adams	DPL	Stuart	364.00	828.00	-56.04%
OH	Clermont	Duke	Zimmer	249.90	245.40	1.83%
OK	Mayes	Grand River Dam Authority	Grand River Dam Authority	266.00	265.00	0.38%
OK	Choctaw	Western Farmers Electric Coop	Hugo	252.86	234.83	7.68%
OK	Muskogee	Koch	Muskogee	302.40	253.50	19.29%
OK	Rogers	American Electric Power	Northeastern	201.00	203.00	-0.99%
OK	Le Flore	AES	Shady Point	126.73	137.00	-7.50%
OK	Noble	OGE Energy	Sooner	224.10	198.60	12.84%
OR	Morrow	Portland General Electric	Boardman	261.80	262.65	-0.32%
PA	Armstrong	Allegheny Energy	Armstrong	264.00	402.00	-34.33%
PA	Beaver	AES	Beaver Valley	40.00	40.00	0.00%
PA	Beaver	FirstEnergy	Bruce Mansfield	145.00	143.00	1.40%
PA	York	PPL	Brunner Island	293.00	312.00	-6.09%
PA	Cambria	UBS / Ontario Teachers Pension Plan	Cambria Cogeneration	4.00	7.00	-42.86%
PA	Allegheny	Reliant (RRI Energy)	Cheswick	160.00	180.00	-11.11%
PA	Cambria	Constellation Energy	Colver	1.00	5.00	-80.00%
PA	Indiana	Reliant (RRI Energy)	Conemaugh	416.30	501.00	-16.91%
PA	Chester	Exelon	Cromby	43.20	33.00	30.91%
PA	Cambria	McDermott International	Ebensburg	2.14	2.21	-3.17%
PA	Delaware	Exelon	Eddystone	119.60	133.20	-10.21%
PA	Washington	Reliant (RRI Energy)	Elrama	20.00	57.35	-65.13%
PA	Greene	Allegheny Energy	Hatfields Ferry	842.00	724.00	16.30%
PA	Indiana	Edison International	Homer City	532.87	628.27	-15.18%
PA	Luzerne	UGI	Hunlock	80.00	80.70	-0.87%
PA	Schuylkill	Gilberton Power	John B. Rich (Gilberton Cogen)	0.82	0.02	3985%
PA	Armstrong	American Electric Power	Keystone	1,000.00	846.40	18.15%
PA	Washington	Allegheny Energy	Mitchell	86.60	62.10	39.45%
PA	Montour	PPL	Montour	268.00	286.00	-6.29%
PA	Northumberland	Ken Pollock	Mt. Carmel Cogeneration	0.97	2.10	-53.81%
PA	Lawrence	Reliant (RRI Energy)	New Castle	180.00	220.00	-18.18%
PA	Northampton	Goldman Sachs	Northampton	0.91	2.15	-57.67%
PA	Schuylkill	GDF Suez	Northeastern Cogeneration	0.09	0.04	125.00%
PA	Carbon	Constellation Energy	Panther Creek	1.40	0.40	250.00%
PA	Clarion	American Consumer Industries	Piney Creek	0.85	0.84	1.42%
PA	Northampton	Reliant (RRI Energy)	Portland	140.00	140.00	0.00%
PA	Venango	Pacific Gas & Electric	Scrubgrass	0.46	5.30	-91.34%
PA	Indiana	Reliant (RRI Energy)	Seward	1.69	1.09	55.05%
PA	Clearfield	Reliant (RRI Energy)	Shawville	760.00	723.00	5.12%
PA	Schuylkill	John W. Rich	St. Nicholas Cogeneration	26.20	22.00	19.09%
PA	Snyder	Corona Power	Sunbury	112.00	101.00	10.89%
PA	Berks	Reliant (RRI Energy)	Titus	100.00	92.00	8.70%
PA	Schuylkill	Integritys	Westwood	16.00	99.00	-83.84%
PR	Salinas	Commonwealth of Puerto Rico	Aguirre	50.60	63.70	-20.57%
PR	Guayama	AES	Puerto Rico	138.00	136.00	1.47%
PR	San Juan	Commonwealth of Puerto Rico	San Juan	16.30	21.20	-23.11%
PR	Guayanilla	Commonwealth of Puerto Rico	South Coast	40.98	39.70	3.22%
SC	Colleton	SCANA	Canadys	71.40	69.40	2.88%
SC	Charleston	MeadWestVaco	Charleston Plant	5.70	4.20	35.71%
SC	Orangeburg	SCANA	Cope	34.20	42.40	-19.34%
SC	Berkeley	Santee Cooper	Cross	107.00	96.60	10.77%
SC	Horry	Santee Cooper	Grainger	35.60	47.80	-25.52%
SC	Berkeley	Santee Cooper	Jefferies	71.80	90.00	-20.22%

**Appendix A: TRI 2008 Electric Utilities  
Total Pounds of Mercury Emitted (2007\*-2008)**

State	County	Owner	Facility	2008	2007	Δ
SC	Anderson	Duke	Lee	63.80	84.82	-24.78%
SC	Lexington	SCANA	McMeekin	23.70	20.40	16.18%
SC	Darlington	Progress Energy	Robinson	41.00	66.00	-37.88%
SC	Aiken	SCANA	Urquhart	33.80	36.20	-6.63%
SC	Richland	SCANA	Wateree	69.50	58.60	18.60%
SC	Berkeley	Genco	Williams	173.50	161.60	7.36%
SC	Georgetown	Santee Cooper	Winyah	69.40	92.00	-24.57%
SD	Pennington	Black Hills Corp	Ben French	18.32	18.33	-0.05%
SD	Grant	Otter Tail Power	Big Stone	222.30	128.80	72.59%
TN	Shelby	Tennessee Valley Authority	Allen	190.00	190.00	0.00%
TN	Anderson	Tennessee Valley Authority	Bull Run	160.00	260.00	-38.46%
TN	Stewart	Tennessee Valley Authority	Cumberland	260.00	260.00	0.00%
TN	Sumner	Tennessee Valley Authority	Gallatin	330.00	300.00	10.00%
TN	Hawkins	Tennessee Valley Authority	John Sevier	310.00	300.00	3.33%
TN	Humphreys	Tennessee Valley Authority	Johnsonville	270.00	290.00	-6.90%
TN	Roane	Tennessee Valley Authority	Kingston	480.00	480.00	0.00%
TX	Freestone	Luminant	Big Brown	1,596.00	1,201.00	32.89%
TX	Goliad	International Power	Coleto Creek	241.00	209.00	15.31%
TX	Bexar	City of San Antonio, Texas	Deely / Spruce / Sommers	417.00	335.00	24.48%
TX	Grimes	Texas Municipal Power Agency	Gibbons Creek	275.00	258.00	6.59%
TX	Harrison	American Electric Power	H W Pirkey	1,039.00	1,080.00	-3.80%
TX	Potter	American Electric Power	Harrington	343.00	322.00	6.52%
TX	Limestone	NRG	Limestone	1,251.00	1,196.50	4.55%
TX	Rusk	Luminant	Martin Lake	1,764.00	1,687.00	4.56%
TX	Titus	Luminant	Monticello	1,427.00	1,668.00	-14.45%
TX	Wilbarger	American Electric Power	Oklunion	160.00	140.00	14.29%
TX	Fayette	Lower Colorado River Authority	Sam Seymour (Fayette)	297.02	308.35	-3.67%
TX	Atascosa	San Miguel Electric Cooperative	San Miguel	518.00	499.00	3.81%
TX	Milam	Luminant	Sandow	472.00	541.00	-12.75%
TX	Lamb	American Electric Power	Tolk	303.00	285.00	6.32%
TX	Robertson	Optim Energy	Twin Oaks	299.20	287.40	4.11%
TX	Fort Bend	NRG	W A Parish	889.20	963.90	-7.75%
TX	Camp	American Electric Power	Welsh	431.00	445.00	-3.15%
UT	Uintah	Deseret Power Electric Coop	Bonanza	4.34	2.61	66.50%
UT	Carbon	MidAmerican Energy	Carbon	25.90	27.20	-4.78%
UT	Emery	MidAmerican Energy	Hunter	112.00	110.00	1.82%
UT	Emery	MidAmerican Energy	Huntington	53.40	55.00	-2.91%
UT	Millard	Intermountain Power Agency	Intermountain	236.30	224.80	5.12%
UT	Carbon	Constellation Energy	Sunnyside Cogeneration	1.50	1.50	0.00%
VA	Campbell	Dominion	Altavista	0.88	1.70	-48.24%
VA	King George	J-Power / General Electric	Birchwood	4.00	4.00	0.00%
VA	Fluvanna	Dominion	Bremo Bluff	129.00	159.00	-18.87%
VA	Giles	Duke	Celanese Acetate Facility	35.70	44.60	-19.96%
VA	Chesapeake (City)	Dominion	Chesapeake	150.00	160.00	-6.25%
VA	Chesterfield	Dominion	Chesterfield	200.00	200.00	0.00%
VA	Russell	American Electric Power	Clinch River	137.00	138.00	-0.72%
VA	Halifax	Dominion	Clover	16.00	18.00	-11.11%
VA	Giles	American Electric Power	Glen Lyn	64.00	61.00	4.92%
VA	Hopewell (City)	Dominion	Hopewell	1.30	2.00	-35.00%
VA	Hopewell (City)	Goldman Sachs	James River Cogeneration	85.35	33.15	157.47%
VA	Mecklenburg	Dominion	Mecklenburg	1.10	2.00	-45.00%
VA	Portsmouth (City)	Goldman Sachs	Portsmouth	31.58	29.40	7.41%
VA	Alexandria (City)	Mirant	Potomac River	24.90	44.00	-43.41%
VA	Richmond (City)	Goldman Sachs	Richmond Cogeneration	28.66	27.90	2.72%

**Appendix A: TRI 2008 Electric Utilities  
Total Pounds of Mercury Emitted (2007\*-2008)**

State	County	Owner	Facility	2008	2007	Δ
VA	Southampton	Dominion	Southampton	0.91	1.10	-17.27%
VA	York	Duke	Yorktown	97.00	82.00	18.29%
WA	Lewis	Translate	Centralia	312.90	372.80	-16.07%
WI	Buffalo	Dairyland Power Coop	Alma	53.60	214.00	-74.95%
WI	Ashland	Xcel	Bay Front	31.00	176.00	-82.39%
WI	Dane	Madison Gas & Electric	Blount	9.30	4.78	94.56%
WI	Columbia	Alliant	Columbia	593.00	487.00	21.77%
WI	Sheboygan	Alliant	Edgewater	294.70	279.50	5.44%
WI	Vernon	Dairyland Power Coop	Genoa	15.00	57.00	-73.68%
WI	Manitowoc	City of Manitowoc, Wisconsin	Manitowoc	3.62	3.87	-6.46%
WI	Winnebago	City of Menasha, Wisconsin	Menasha	9.60	9.14	5.03%
WI	Grant	Alliant	Nelson Dewey	46.15	28.60	61.36%
WI	Kenosha	Wisconsin Energy (WE Energies)	Pleasant Prairie	579.80	535.50	8.27%
WI	Brown	Integritys	Pulliam	200.00	200.00	0.00%
WI	Milwaukee	Wisconsin Energy (WE Energies)	South Oak Creek	289.90	246.10	17.80%
WI	Milwaukee	Wisconsin Energy (WE Energies)	Valley	6.80	5.60	21.43%
WI	Marathon	Integritys	Weston	180.00	120.00	50.00%
WV	Marshall	American Electric Power	Kammer / Mitchell	489.00	348.00	40.52%
WV	Preston	Allegheny Energy	Albright	165.00	229.00	-27.95%
WV	Putnam	American Electric Power	Amos	710.00	766.00	-7.31%
WV	Monongalia	Allegheny Energy	Fort Martin	572.00	436.00	31.19%
WV	Marion	Edison International	Grant Town	7.66	6.87	11.50%
WV	Harrison	Allegheny Energy	Harrison	424.00	367.00	15.53%
WV	Kanawha	American Electric Power	Kanawha River	111.00	75.00	48.00%
WV	Monongalia	Dominion	Morgantown	174.00	176.00	-1.14%
WV	Grant	Dominion	Mount Storm	307.00	315.00	-2.54%
WV	Mason	American Electric Power	Mountaineer	345.00	329.00	4.86%
WV	Grant	Dominion	North Branch	0.30	0.30	0.00%
WV	Mason	American Electric Power	Philip Sporn	246.00	242.00	1.65%
WV	Pleasants	Allegheny Energy	Pleasants Willow	181.00	261.00	-30.65%
WV	Marion	Allegheny Energy	Rivesville	8.13	32.00	-74.59%
WY	Converse	MidAmerican Energy	Dave Johnston	226.40	228.30	-0.83%
WY	Sweetwater	MidAmerican Energy	Jim Bridger	389.50	392.70	-0.81%
WY	Platte	Basin Electric Power Coop	Laramie River	620.00	660.00	-6.06%
WY	Lincoln	MidAmerican Energy	Naughton	29.60	29.90	-1.00%
WY	Campbell	Black Hills Corp	Neil Simpson Complex	284.00	172.00	65.12%
WY	Weston	Black Hills Corp	Osage	27.29	28.64	-4.71%
WY	Campbell	MidAmerican Energy	Wyodak	142.10	142.90	-0.56%
<b>TOTAL</b>				<b>89,422.36</b> <b>(44.71 tons)</b>	<b>93,727.15*</b> <b>(46.86 tons)</b>	<b>-4.59%*</b>

\*Actual reported 2007 TRI Electric Utilities Hg emissions is 93,837 pounds (46.92 tons), as shown in Table 3 in this report. This Appendix includes only those plants that reported to TRI in 2008.

## Appendix B: All TRI 2008 Electric Utilities Reporting At Least 2,000 Gigawatt-hours

State	County	Owner	Facility	2008 Hg (lbs)	Electric Generation (GWh)	lbs of Hg per GWh
AL	Mobile	Southern Company	Barry	479.00	14,755.55	0.0325
AL	Colbert	Tennessee Valley Authority	Cobert	230.00	8,251.24	0.0279
AL	Shelby	Southern Company	Gaston	848.80	12,077.24	0.0703
AL	Walker	Southern Company	Gorgas	741.50	8,368.87	0.0886
AL	Greene	Southern Company	Greene County	351.70	3,759.39	0.0936
AL	Washington	PowerSouth Energy Coop	Lowman	31.00	3,908.67	0.0079
AL	Jefferson	Southern Company	Miller	1,158.00	22,363.54	0.0518
AL	Jackson	Tennessee Valley Authority	Widows Creek	210.00	9,998.84	0.0210
AR	Benton	American Electric Power	Flint Creek	134.00	3,824.16	0.0350
AR	Independence	Entergy	Independence	582.00	11,823.70	0.0492
AR	Jefferson	Entergy	White Bluff	584.00	11,582.67	0.0504
AZ	Cochise	Arizona Electric Power Cooperative	Apache	175.80	3,108.25	0.0566
AZ	Navajo	Arizona Public Service	Cholla	280.00	8,139.09	0.0344
AZ	Apache	Salt River Project	Coronado	482.00	7,029.54	0.0686
AZ	Coconino	Salt River Project	Navajo	602.00	19,045.82	0.0316
AZ	Apache	Salt River Project	Springerville	188.00	9,838.36	0.0191
CO	Adams	Xcel	Cherokee	131.00	4,965.96	0.0264
CO	Pueblo	Xcel	Comanche	134.60	4,814.91	0.0280
CO	Moffat	Tri-State Generation and Transmission	Craig	130.00	10,743.71	0.0121
CO	Routt	Xcel	Hayden	111.00	3,723.79	0.0298
CO	Morgan	Xcel	Pawnee	131.00	3,781.65	0.0346
CO	Larimer	Platte River Power Authority	Rawhide	63.00	2,352.14	0.0268
CT	Fairfield	Public Service Enterprise Group	Bridgeport Harbor	26.34	3,018.71	0.0087
DE	New Castle	Conectiv Energy	Edge Moor / Hay Road	140.10	2,507.02	0.0559
DE	Sussex	NRG	Indian River	122.00	4,159.45	0.0293
FL	Hillsborough	TECO Energy	Big Bend	140.00	9,352.47	0.0150
FL	Escambia	Southern Company	Crist	233.50	5,637.14	0.0414
FL	Citrus	Progress Energy	Crystal River	450.00	14,555.30	0.0309
FL	Lee	Florida Power & Light	Fort Myers	17.63	6,145.22	0.0029
FL	Martin	Pacific Gas & Electric	Indiantown	33.90	2,325.97	0.0146
FL	Bay	Southern Company	Lansing Smith	76.20	4,961.28	0.0154
FL	Broward	Florida Power & Light	Lauderdale	28.09	3,639.72	0.0077
FL	Manatee	Florida Power & Light	Manatee	17.48	7,537.45	0.0023
FL	Martin	Florida Power & Light	Martin	29.97	11,952.52	0.0025
FL	Polk	City of Lakeland, Florida	McIntosh	18.10	3,351.02	0.0054
FL	Volusia	Florida Power & Light	Sanford	20.55	6,997.66	0.0029
FL	Putnam	Seminole Electric Cooperative	Seminole	87.00	9,575.77	0.0091
FL	Duval	JEA	St Johns / Northside	182.00	14,070.03	0.0129
FL	Miami-Dade	Florida Power & Light	Turkey Point	12.72	7,490.89	0.0017
GA	Bartow	Southern Company	Bowen	679.20	23,432.25	0.0290
GA	Putnam	Southern Company	Branch	418.40	10,669.45	0.0392
GA	Floyd	Southern Company	Hammond	106.80	4,322.73	0.0247
GA	Cobb	Southern Company	McDonough	144.10	3,430.74	0.0420
GA	Monroe	Southern Company	Scherer	1,589.30	25,727.56	0.0618
GA	Carroll	Southern Company	Wansley	317.60	15,467.62	0.0205
GA	Coweta	Southern Company	Yates	416.50	7,367.42	0.0565
IA	Pottawattamie	MidAmerican Energy	Council Bluffs (Walter Scott Jr)	392.00	12,636.93	0.0310
IA	Woodbury	MidAmerican Energy	George Neal North	380.00	6,579.77	0.0578
IA	Woodbury	MidAmerican Energy	George Neal South	280.00	4,720.17	0.0593
IA	Louisa	MidAmerican Energy	Louisa	320.00	5,297.01	0.0604
IA	Wapello	Alliant	Ottumwa	353.80	4,522.44	0.0782
IL	Randolph	Dynergy	Baldwin	433.60	13,874.91	0.0313

## Appendix B: All TRI 2008 Electric Utilities Reporting At Least 2,000 Gigawatt-hours

State	County	Owner	Facility	2008 Hg (lbs)	Electric Generation (GWh)	lbs of Hg per GWh
IL	Montgomery	Ameren	Coffeen	289.80	5,931.14	0.0489
IL	Cook	Edison International	Crawford	101.93	2,667.79	0.0382
IL	Sangamon	City of Springfield, Illinois	Dallman / Lakeside	57.00	2,196.64	0.0259
IL	Fulton	Ameren	Duck Creek	30.10	2,482.08	0.0121
IL	Peoria	Ameren	Edwards	249.90	4,632.81	0.0539
IL	Mason	Dynegy	Havana	130.90	3,060.56	0.0428
IL	Will	Edison International	Joliet 9 & 29	324.18	7,983.04	0.0406
IL	Massac	Ameren	Joppa	359.00	8,633.35	0.0416
IL	Christian	Dominion	Kincaid	490.00	7,970.02	0.0615
IL	Jasper	Ameren	Newton	655.10	8,973.71	0.0730
IL	Tazewell	Edison International	Powerton	404.16	9,838.39	0.0411
IL	Lake	Edison International	Waukegan	197.30	4,303.72	0.0458
IL	Will	Edison International	Will County	284.98	6,604.75	0.0431
IL	Madison	Dynegy	Wood River	111.00	3,441.23	0.0323
IN	Porter	NiSource	Bailly	74.00	2,846.50	0.0260
IN	Posey	Vectren	Brown	164.70	3,656.08	0.0450
IN	Vermillion	Duke	Cayuga	191.70	6,756.29	0.0284
IN	Jefferson	Ohio Valley Electric Coop	Clifty Creek	388.00	9,160.43	0.0424
IN	Warrick	Vectren	Culley	138.20	2,065.61	0.0669
IN	Floyd	Duke	Gallagher	36.50	2,940.70	0.0124
IN	Gibson	Duke	Gibson	307.60	23,594.41	0.0130
IN	Marion	AES	Harding Street (E W Stout)	153.70	3,679.60	0.0418
IN	Sullivan	Hoosier Energy	Merom	204.00	6,843.42	0.0298
IN	La Porte	NiSource	Michigan City	149.00	2,546.15	0.0585
IN	Pike	AES	Petersburg	510.10	12,655.59	0.0403
IN	Spencer	Reliant (RRI Energy)	Rockport	962.00	20,859.78	0.0461
IN	Jasper	NiSource	Schahfer	524.00	10,735.93	0.0488
IN	Lake	Dominion	State Line Plant	105.00	3,981.24	0.0264
IN	Dearborn	American Electric Power	Tanners Creek	211.00	5,007.89	0.0421
IN	Vigo	Duke	Wabash River	191.50	5,198.56	0.0368
KS	Finney	Sunflower Electric Power Corporation	Holcomb	300.00	2,996.94	0.1001
KS	Pottawatomie	Westar Energy	Jeffrey Energy Center	661.10	14,567.69	0.0454
KS	Linn	Great Plains Energy	La Cygne	497.00	10,530.75	0.0472
KS	Douglas	Westar Energy	Lawrence	197.10	4,135.80	0.0477
KY	Lawrence	American Electric Power	Big Sandy	263.00	6,304.82	0.0417
KY	Jefferson	E. ON US	Cane Run	89.90	3,727.21	0.0241
KY	Hancock	E. ON US	Coleman	118.20	3,201.06	0.0369
KY	Pulaski	East Kentucky Power Coop	Cooper	120.00	2,226.85	0.0539
KY	Mercer	E. ON US	E W Brown	221.80	4,519.00	0.0491
KY	Boone	Duke	East Bend	89.30	4,655.85	0.0192
KY	Daviess	City of Owensboro, Kentucky	Elmer Smith	55.00	2,261.61	0.0243
KY	Carroll	E. ON US	Ghent	275.70	13,685.21	0.0201
KY	Henderson	Big Rivers Electric Corporation	Green / Reid / HMP&L II	237.30	6,487.10	0.0366
KY	Jefferson	E. ON US	Mill Creek	316.00	11,451.63	0.0276
KY	Muhlenberg	Tennessee Valley Authority	Paradise	340.00	9,322.23	0.0365
KY	Mc Cracken	Tennessee Valley Authority	Shawnee	200.00	10,333.41	0.0194
KY	Mason	East Kentucky Power Coop	Spurlock	340.00	5,380.51	0.0632
KY	Trimble	E. ON US	Trimble	158.50	4,788.06	0.0331
KY	Ohio	E. ON US	Wilson	116.10	3,243.17	0.0358
LA	Pointe Coupee	NRG	Big Cajun 2	840.00	13,624.20	0.0617
LA	De Soto	Cleco	Dolet Hills	230.00	5,276.72	0.0436
LA	Calcasieu	Entergy	Nelson	557.20	5,324.64	0.1046
LA	Rapides	Cleco	Rodemacher	143.00	3,528.83	0.0405

## Appendix B: All TRI 2008 Electric Utilities Reporting At Least 2,000 Gigawatt-hours

State	County	Owner	Facility	2008 Hg (lbs)	Electric Generation (GWh)	lbs of Hg per GWh
MA	Bristol	Dominion	Brayton Point	56.00	8,372.23	0.0067
MD	Anne Arundel	Constellation Energy	Brandon Shores / Herbert Wagner	550.00	10,675.97	0.0515
MD	Prince Georges	Mirant	Chalk Point	230.00	4,760.14	0.0483
MD	Montgomery	Mirant	Dickerson	109.00	2,996.14	0.0364
MD	Charles	Mirant	Morgantown	270.00	7,271.05	0.0371
MI	St Clair	DTE Energy	Belle River	379.34	8,673.00	0.0437
MI	Ottawa	CMS Energy	Campbell	446.26	10,690.28	0.0417
MI	Muskegon	CMS Energy	Cobb	94.15	2,165.94	0.0435
MI	Bay	CMS Energy	Karn	164.00	2,394.53	0.0685
MI	Monroe	DTE Energy	Monroe	1,147.00	20,599.82	0.0557
MI	Marquette	Wisconsin Energy (WE Energies)	Presque Isle	26.80	3,678.61	0.0073
MI	St Clair	DTE Energy	St. Clair	377.56	8,360.11	0.0452
MI	Monroe	CMS Energy	Whiting	108.06	2,375.16	0.0455
MN	Itasca	Allete	Boswell	282.15	7,691.31	0.0367
MN	Washington	Xcel	King	45.20	3,450.66	0.0131
MN	Sherburne	Xcel	Sherburne	591.30	15,385.23	0.0384
MO	Jackson	Great Plains Energy	Hawthorn	57.00	4,009.83	0.0142
MO	Platte	Great Plains Energy	Iatan	208.00	4,479.23	0.0464
MO	Franklin	Ameren	Labadie	1,442.20	18,337.38	0.0786
MO	St. Louis (City)	Ameren	Meramec	472.50	6,245.99	0.0756
MO	Henry	Great Plains Energy	Montrose	101.00	3,550.70	0.0284
MO	New Madrid	Associated Electric Cooperative	New Madrid	160.00	7,746.04	0.0207
MO	Jefferson	Ameren	Rush Island	669.40	9,250.24	0.0724
MO	Jackson	Great Plains Energy	Sibley	40.28	2,727.94	0.0148
MO	Scott	City of Sikeston, Missouri	Sikeston	134.00	2,010.79	0.0666
MO	St Charles	Ameren	Sioux	362.60	6,215.43	0.0583
MO	Randolph	Associated Electric Cooperative	Thomas Hill	295.00	7,499.30	0.0393
MS	Jackson	Southern Company	Daniel	224.60	9,108.03	0.0247
MS	Lamar	South Mississippi Electric Power Association	Morrow	210.91	2,756.17	0.0765
MS	Harrison	Southern Company	Watson	165.60	5,403.22	0.0306
MT	Rosebud	PPL	Colstrip	910.00	17,533.04	0.0519
NC	Gaston	Duke	Allen	243.00	6,920.43	0.0351
NC	Buncombe	Progress Energy	Asheville	17.00	2,593.50	0.0066
NC	Stokes	Duke	Belews Creek	196.60	17,394.04	0.0113
NC	Rutherford	Duke	Cliffside	156.60	4,592.90	0.0341
NC	Catawba	Duke	Marshall	245.90	13,566.18	0.0181
NC	Gaston	Duke	Riverbend	97.40	2,100.09	0.0464
NC	Person	Progress Energy	Roxboro	280.00	7,166.84	0.0391
NC	New Hanover	Progress Energy	Sutton	140.00	3,065.40	0.0457
ND	Mercer	Basin Electric Power Coop	Antelope Valley	530.00	6,881.20	0.0770
ND	Mclean	Great River Energy	Coal Creek	798.60	8,910.17	0.0896
ND	Mercer	Otter Tail Power	Coyote	361.30	3,180.28	0.1136
ND	Mercer	Basin Electric Power Coop	Leland Olds	320.00	4,864.10	0.0658
ND	Oliver	Minnkota Power Coop	Milton R Young	629.00	5,888.30	0.1068
NE	Lincoln	State of Nebraska	Gerald Gentleman	260.00	10,447.27	0.0249
NE	Otoe	Omaha Public Power District	Nebraska City Station	470.00	5,265.44	0.0893
NE	Douglas	Omaha Public Power District	North Omaha Station	339.00	3,828.99	0.0885
NH	Merrimack	Northeast Utilities	Merrimack	160.00	3,008.72	0.0532
NJ	Bergen	Public Service Enterprise Group	Bergen	18.00	3,521.46	0.0051
NJ	Hudson	Public Service Enterprise Group	Hudson	54.00	2,387.93	0.0226
NJ	Union	Public Service Enterprise Group	Linden	15.40	2,753.69	0.0056
NJ	Mercer	Public Service Enterprise Group	Mercer	14.30	2,358.20	0.0061

## Appendix B: All TRI 2008 Electric Utilities Reporting At Least 2,000 Gigawatt-hours

State	County	Owner	Facility	2008 Hg (lbs)	Electric Generation (GWh)	lbs of Hg per GWh
NM	San Juan	Arizona Public Service	Four Corners	535.00	15,821.30	0.0338
NM	San Juan	PNM Resources	San Juan	192.00	11,646.30	0.0165
NV	Humboldt	NV Energy	North Valmy	28.00	3,780.59	0.0074
NV	Clark	NV Energy	Reid Gardner	69.00	3,761.77	0.0183
NY	Tompkins	AES	Cayuga	19.00	2,388.36	0.0080
NY	Orange	Dynergy	Danskammer	88.80	2,814.51	0.0316
NY	Chautauqua	NRG	Dunkirk	242.00	3,914.33	0.0618
NY	Erie	NRG	Huntley	154.00	2,581.83	0.0596
NY	Niagara	AES	Somerset	18.00	5,472.58	0.0033
OH	Lorain	Reliant (RRI Energy)	Avon Lake	250.00	2,804.98	0.0891
OH	Lucas	FirstEnergy	Bay Shore	87.00	3,374.89	0.0258
OH	Clermont	Duke	Becjkord	170.40	3,064.04	0.0556
OH	Jefferson	American Electric Power	Cardinal	394.00	11,078.45	0.0356
OH	Coshocton	American Electric Power	Conesville	898.00	10,137.68	0.0886
OH	Lake	FirstEnergy	Eastlake	347.00	8,397.36	0.0413
OH	Gallia	American Electric Power	Gavin	937.00	22,666.72	0.0413
OH	Adams	DPL	Killen	45.40	3,941.41	0.0115
OH	Gallia	Ohio Valley Electric Coop	Kyger Creek	336.00	7,425.85	0.0452
OH	Hamilton	Duke	Miami Fort	170.50	8,136.78	0.0210
OH	Washington	American Electric Power	Muskingum River	464.00	9,571.87	0.0485
OH	Jefferson	FirstEnergy	Sammis	498.00	15,779.27	0.0316
OH	Adams	DPL	Stuart	364.00	15,137.81	0.0240
OH	Clermont	Duke	Zimmer	249.90	10,193.28	0.0245
OK	Mayes	Grand River Dam Authority	Grand River Dam Authority	266.00	7,507.89	0.0354
OK	Choctaw	Western Farmers Electric Coop	Hugo	252.86	3,370.27	0.0750
OK	Muskogee	Koch	Muskogee	302.40	10,649.45	0.0284
OK	Rogers	American Electric Power	Northeastern	201.00	9,703.42	0.0207
OK	Noble	OGE Energy	Sooner	224.10	8,109.42	0.0276
OR	Morrow	Portland General Electric	Boardman	261.80	4,264.59	0.0614
PA	Beaver	FirstEnergy	Bruce Mansfield	145.00	20,081.36	0.0072
PA	York	PPL	Brunner Island	293.00	10,512.28	0.0279
PA	Allegheny	Reliant (RRI Energy)	Cheswick	160.00	2,635.21	0.0607
PA	Indiana	Reliant (RRI Energy)	Conemaugh	416.30	12,213.11	0.0341
PA	Delaware	Exelon	Eddystone	119.60	2,572.11	0.0465
PA	Greene	Allegheny Energy	Hatfields Ferry	842.00	11,664.42	0.0722
PA	Indiana	Edison International	Homer City	532.87	12,111.82	0.0440
PA	Armstrong	American Electric Power	Keystone	1,000.00	14,972.50	0.0668
PA	Montour	PPL	Montour	268.00	9,621.19	0.0279
PA	Northampton	Reliant (RRI Energy)	Portland	140.00	2,290.20	0.0611
PA	Clearfield	Reliant (RRI Energy)	Shawville	760.00	3,723.16	0.2041
SC	Colleton	SCANA	Canadys	71.40	2,359.39	0.0303
SC	Orangeburg	SCANA	Cope	34.20	2,756.05	0.0124
SC	Berkeley	Santee Cooper	Cross	107.00	14,730.31	0.0073
SC	Richland	SCANA	Wateree	69.50	5,217.87	0.0133
SC	Berkeley	Genco	Williams	173.50	4,394.43	0.0395
SC	Georgetown	Santee Cooper	Winyah	69.40	7,675.24	0.0090
SD	Grant	Otter Tail Power	Big Stone	222.30	3,729.11	0.0596
TN	Shelby	Tennessee Valley Authority	Allen	190.00	5,635.22	0.0337
TN	Anderson	Tennessee Valley Authority	Bull Run	160.00	4,075.70	0.0393
TN	Stewart	Tennessee Valley Authority	Cumberland	260.00	17,499.42	0.0149
TN	Sumner	Tennessee Valley Authority	Gallatin	330.00	8,360.25	0.0395
TN	Hawkins	Tennessee Valley Authority	John Sevier	310.00	5,214.10	0.0595
TN	Humphreys	Tennessee Valley Authority	Johnsonville	270.00	8,450.67	0.0320
TN	Roane	Tennessee Valley Authority	Kingston	480.00	10,972.23	0.0437



**Appendix B: All TRI 2008 Electric Utilities Reporting At Least 2,000 Gigawatt-hours**

State	County	Owner	Facility	2008 Hg (lbs)	Electric Generation (GWh)	lbs of Hg per GWh
TX	Freestone	Luminant	Big Brown	1,596.00	8,962.69	0.1781
TX	Goliad	International Power	Coletto Creek	241.00	5,163.48	0.0467
TX	Bexar	City of San Antonio, Texas	Deely / Spruce / Sommers	417.00	11,524.29	0.0362
TX	Grimes	Texas Municipal Power Agency	Gibbons Creek	275.00	3,803.47	0.0723
TX	Harrison	American Electric Power	H W Pirkey	1,039.00	5,015.84	0.2071
TX	Potter	American Electric Power	Harrington	343.00	8,238.82	0.0416
TX	Limestone	NRG	Limestone	1,251.00	14,753.70	0.0848
TX	Rusk	Luminant	Martin Lake	1,764.00	19,200.58	0.0919
TX	Titus	Luminant	Monticello	1,427.00	15,915.32	0.0897
TX	Wilbarger	American Electric Power	Oklaunion	160.00	4,415.02	0.0362
TX	Fayette	Lower Colorado River Authority	Sam Seymour (Fayette Power Project)	297.02	12,530.54	0.0237
TX	Atascosa	San Miguel Electric Cooperative	San Miguel	518.00	3,042.98	0.1702
TX	Milam	Luminant	Sandow	472.00	4,093.55	0.1153
TX	Lamb	American Electric Power	Tolk	303.00	7,942.90	0.0381
TX	Robertson	Optim Energy	Twin Oaks	299.20	2,712.63	0.1103
TX	Fort Bend	NRG	W A Parish	889.20	20,989.07	0.0424
TX	Camp	American Electric Power	Welsh	431.00	10,809.39	0.0399
UT	Uintah	Deseret Power Electric Coop	Bonanza	4.34	3,943.23	0.0011
UT	Emery	MidAmerican Energy	Hunter	112.00	11,019.18	0.0102
UT	Emery	MidAmerican Energy	Huntington	53.40	7,572.96	0.0071
UT	Millard	Intermountain Power Agency	Intermountain	236.30	15,425.86	0.0153
VA	Chesapeake (City)	Dominion	Chesapeake	150.00	3,645.59	0.0411
VA	Chesterfield	Dominion	Chesterfield	200.00	9,342.15	0.0214
VA	Russell	American Electric Power	Clinch River	137.00	3,863.15	0.0355
VA	Halifax	Dominion	Clover	16.00	6,283.11	0.0025
VA	York	Duke	Yorktown	97.00	2,403.02	0.0404
WA	Lewis	Translate	Centralia	312.90	9,449.49	0.0331
WI	Columbia	Alliant	Columbia	593.00	7,730.45	0.0767
WI	Sheboygan	Alliant	Edgewater	294.70	4,910.31	0.0600
WI	Vernon	Dairyland Power Coop	Genoa	15.00	2,516.70	0.0060
WI	Kenosha	Wisconsin Energy (WE Energies)	Pleasant Prairie	579.80	8,430.47	0.0688
WI	Brown	Integrus	Pulliam	200.00	2,306.26	0.0867
WI	Milwaukee	Wisconsin Energy (WE Energies)	South Oak Creek	289.90	6,286.15	0.0461
WI	Marathon	Integrus	Weston	180.00	4,824.63	0.0373
WV	Marshall	American Electric Power	Kammer / Mitchell	489.00	14,743.04	0.0332
WV	Putnam	American Electric Power	Amos	710.00	17,281.76	0.0411
WV	Monongalia	Allegheny Energy	Fort Martin	572.00	7,153.23	0.0800
WV	Harrison	Allegheny Energy	Harrison	424.00	14,189.83	0.0299
WV	Kanawha	American Electric Power	Kanawha River	111.00	2,659.06	0.0417
WV	Grant	Dominion	Mount Storm	307.00	10,906.34	0.0281
WV	Mason	American Electric Power	Mountaineer	345.00	10,552.39	0.0327
WV	Mason	American Electric Power	Philip Sporn	246.00	5,299.23	0.0464
WV	Pleasants	Allegheny Energy	Pleasants Willow	181.00	9,720.91	0.0186
WY	Converse	MidAmerican Energy	Dave Johnston	226.40	6,144.18	0.0368
WY	Sweetwater	MidAmerican Energy	Jim Bridger	389.50	16,334.68	0.0238
WY	Platte	Basin Electric Power Coop	Laramie River	620.00	13,249.74	0.0468
WY	Lincoln	MidAmerican Energy	Naughton	29.60	5,496.24	0.0054
WY	Campbell	Black Hills Corp	Neil Simpson Complex	284.00	2,371.92	0.1197
WY	Campbell	MidAmerican Energy	Wyodak	142.10	3,139.01	0.0453