July 2011

Toxic Power

How Power Plants Contaminate Our Air and States

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Introduction

The electric sector is the largest source of industrial (stack) emissions of toxic air pollution in the United States. In 2009, coal- and oil-fired power plants accounted for nearly 50 percent of all reported toxic pollution from industrial sources. The next largest sector, chemical processing and manufacturing, emitted less than one third of the electric sector's total. Power plants are the leading source of industrial toxic air pollution in 28 states and the District of Columbia.

Exposure to toxic pollution from power plants, including hydrochloric acid, mercury, and other metals, is known or believed to contribute to or exacerbate a wide variety of health conditions, including one or more of the following:

- Asthma and other respiratory ailments,
- Developmental disorders,
- Neurological damage,
- Birth defects,
- Cancer, and
- Premature mortality.

This report analyzes publicly available data from Environmental Protection Agency's Toxics Release Inventory (TRI). Facilities that release significant quantities of a wide variety of toxic chemicals must report these releases, including industrial air emissions, to TRI annually. These self-reported data reveal that power plants are largely responsible for contaminating our air with toxic chemicals.

Sources: EPA's Toxic Release Inventory (2009 data), accessed June 2011; EPA's National Electric Energy Data System Database v.4.10 (2010).

The Toxic Twenty

Power plants are the leading sources of toxic air pollution in all but four of the top 20 states by electric sector emissions.

State	Electric Sector Rank by In-State Toxic Air Pollution	Total Industrial Toxic Air Pollution (lbs)	Electric Sector Toxic Air Pollution (lbs)	Electric Sector Contribution to State Toxic Air Pollution (%)	Status of State Mercury Regulations
Ohio	1	68,863,474	44,545,704	65%	
Pennsylvania	1	50,527,280	41,459,532	82%	
Florida	1	49,039,948	33,442,431	68%	
Kentucky	1	41,340,348	31,947,066	77%	
Maryland	1	29,887,235	27,092,233	91%	●
Indiana	1	39,634,894	26,798,135	68%	
Michigan	1	31,276,291	22,731,782	73%	●
West Virginia	1	25,493,261	21,486,688	84%	
Georgia	1	41,902,848	18,246,617	44%	●
North Carolina	1	30,296,011	14,907,994	49%	●
South Carolina	1	26,774,040	11,453,391	43%	●
Alabama	2	28,573,077	11,418,246	40%	
Texas	2	39,442,151	10,155,177	26%	
Virginia	1	25,205,367	9,649,281	38%	
Tennessee	1	25,070,569	8,864,747	35%	
Missouri	1	12,011,626	6,360,329	53%	
Illinois	1	23,917,015	5,583,222	23%	●
Wisconsin	2	12,810,181	3,451,772	27%	●
New Hampshire	1	2,633,143	2,519,676	96%	●
Iowa	4	15,370,670	2,486,771	16%	
Toxic 20 Total	**1**	**620,069,428**	**354,600,794**	**57%**	
U.S. Total	**1**	**771,580,707**	**381,740,601**	**49%**	

● State has electric sector mercury regulations that are **at least as** stringent as EPA's proposed utility air toxics rule.

● State has electric sector mercury regulation that are **less** stringent than EPA's proposed utility air toxics rule.

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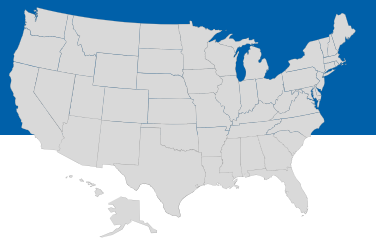
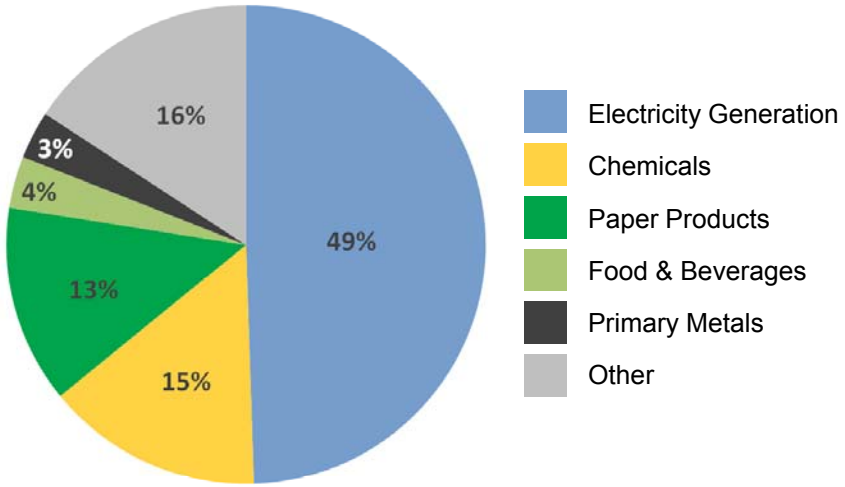
Note: A table summarizing the emissions from all states is available in the appendix.

Sources: EPA's Toxic Release Inventory (2009 data), accessed June 2011; State environmental departments.

Toxic Industrial Air Pollution in the U.S.



Toxic Air Pollution by Sector



Sector	Toxic Air Pollution (lbs)	% of National Air Pollution
Electricity Generation	381,740,601	49%
Chemicals	112,870,057	15%
Paper Products	103,249,010	13%
Food & Beverages	26,908,977	3%
Primary Metals	24,923,246	3%
Other	121,888,815	16%
Total	**771,580,707**	**100%**

U.S. Electric Sector Key Facts

Toxic Air Pollution
The U.S. electric sector was responsible for **49%** of all industrial toxic air pollution in 2009, emitting nearly **382 million pounds.**

Mercury Pollution
Electricity generation in the U.S. accounted for about **75%** of all mercury air pollution, emitting nearly **71,000 pounds** in 2009.

Top Power Plant Polluters

Plant Name	Owner(s)	State	Toxic Air Pollution (lbs)		Pollution Control Update?
			All Toxics	Mercury	
Keystone	PSEG, Constellation, Exelon, GenOn & Others	PA	15,436,496	795	●
Brandon Shores	Constellation	MD	13,109,753	280	●
Crist	Southern	FL	9,804,196	298	●
Monroe	DTE Energy	MI	9,691,081	848	●
Crystal River	Progress Energy & Others	FL	9,449,158	360	●
Paradise	Tennessee Valley Authority	KY	7,713,713	170	
Muskingum River	AEP	OH	7,421,075	322	
Morgantown	GenOn	MD	7,067,197	220	●
John E Amos	AEP	WV	6,675,594	526	●
Harllee Branch	Southern	GA	6,155,089	266	

● Pollution controls have been installed since 2009 or are currently under construction. These investments should reduce emissions of mercury and other toxic air pollutants in future years.

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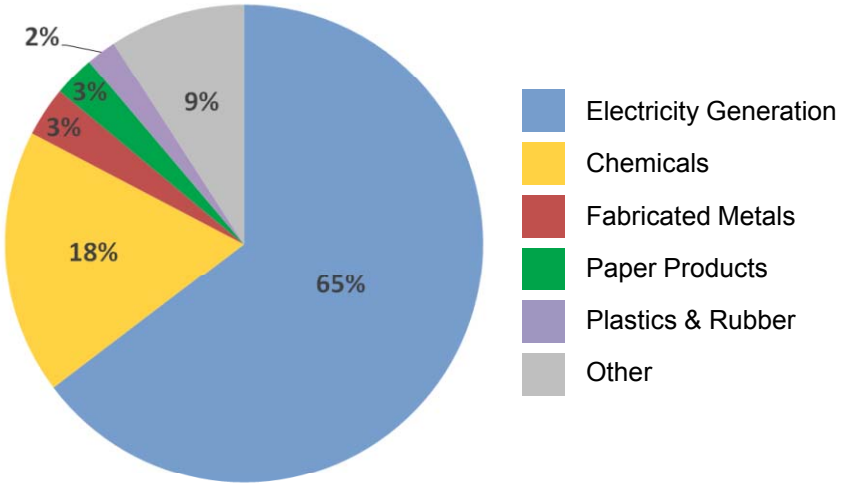
Note: The possibility of already planned retirements or pollution controls at the listed plants may also reduce emissions in future years.

Sources: EPA's Toxics Release Inventory (2009 data), accessed June 2011; EPA's National Electric Energy Data System Database v.4.10 (2010).

Toxic Industrial Air Pollution in Ohio

Toxic Air Pollution by Sector



Sector	Toxic Air Pollution (lbs)	% of State Toxic Air Pollution
Electricity Generation	44,545,704	65%
Chemicals	12,358,212	18%
Fabricated Metals	2,316,089	3%
Paper Products	1,918,613	3%
Plastics & Rubber	1,402,363	2%
Other	6,322,492	9%
Total	**68,863,474**	**100%**

Ohio Key Facts

Toxic Air Pollution
Ohio's electric sector ranked **FIRST** in toxic air pollution in 2009, emitting more than **44.5 million pounds** of harmful chemicals, which accounted for **65%** of state pollution and **12%** of toxic pollution from all U.S. power plants.

Mercury Pollution
Ohio ranked **THIRD** among all states in mercury air pollution from power plants with about **3,980 pounds** emitted in 2009, which accounted for **76%** of state mercury air pollution and **6%** of U.S. electric sector pollution.

Top Power Plant Polluters

Plant Name	Owner(s)	Toxic Air Pollution (lbs)		Pollution Control Update?
		All Toxics	Mercury	
Muskingum River	AEP	7,421,075	322	
W H Sammis	FirstEnergy	5,857,756	364	●
J M Stuart	Duke, DPL, AEP	4,566,050	94	
Cardinal	Buckeye Power, AEP	4,290,199	407	●
Walter C Beckjord	Duke, DPL & Others	4,261,996	252	
Eastlake	FirstEnergy	2,997,532	268	
Miami Fort	Duke, DPL	2,800,979	128	
Kyger Creek	AEP & Others	2,789,782	326	●
Avon Lake	GenOn	2,136,335	261	
W H Zimmer	Duke, DPL, AEP	1,445,893	94	

● Pollution controls have been installed since 2009 or are currently under construction. These investments should reduce emissions of mercury and other toxic air pollutants in future years.

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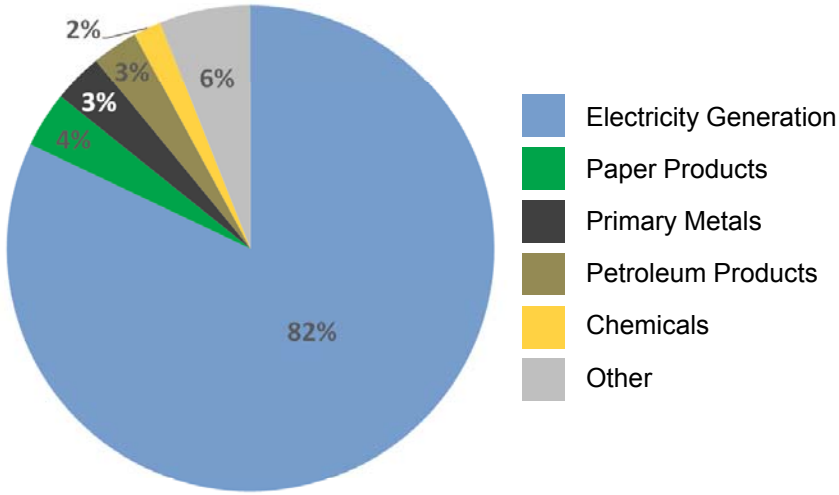
Note: The possibility of already planned retirements or pollution controls at the listed plants may also reduce emissions in future years.

Sources: EPA's Toxics Release Inventory (2009 data), accessed June 2011; EPA's National Electric Energy Data System Database v.4.10 (2010).

Toxic Industrial Air Pollution in Pennsylvania

Toxic Air Pollution by Sector



Sector	Toxic Air Pollution (lbs)	% of State Toxic Air Pollution
Electricity Generation	41,459,532	82%
Paper Products	1,881,608	4%
Primary Metals	1,670,608	3%
Petroleum Products	1,541,012	3%
Chemicals	923,795	2%
Other	3,050,725	6%
Total	**50,527,280**	**100%**

Pennsylvania Key Facts

Toxic Air Pollution
Pennsylvania's electric sector ranked **SECOND** in toxic air pollution in 2009, emitting nearly **41.5 million pounds** of harmful chemicals, which accounted for **82%** of state pollution and **11**% of toxic pollution from all U.S. power plants.

Mercury Pollution
Pennsylvania ranked **SECOND** among all states in mercury air pollution from power plants with over **4,500 pounds** emitted in 2009, which accounted for **71%** of state mercury air pollution and **6%** of U.S. electric sector pollution.

Top Power Plant Polluters

Plant Name	Owner(s)	Toxic Air Pollution (lbs)		Pollution Control Update?
		All Toxics	Mercury	
Keystone	PSEG, Constellation, Exelon, GenOn & Others	15,436,496	795	●
Homer City Station	Edison International	6,027,737	526	
Hatfields Ferry	FirstEnergy	3,402,293	505	●
Portland	GenOn	3,020,978	178	
PPL Brunner Island	PPL	2,484,839	265	●
Cheswick Power Plant	GenOn	2,381,170	138	●
Shawville	GenOn	2,135,910	540	
Titus	GenOn	1,178,319	29	
Sunbury Generation	Corona Power	861,711	50	
Conemaugh	PSEG, Exelon, GenOn & Others	724,389	569	

● Pollution controls have been installed since 2009 or are currently under construction. These investments should reduce emissions of mercury and other toxic air pollutants in future years.

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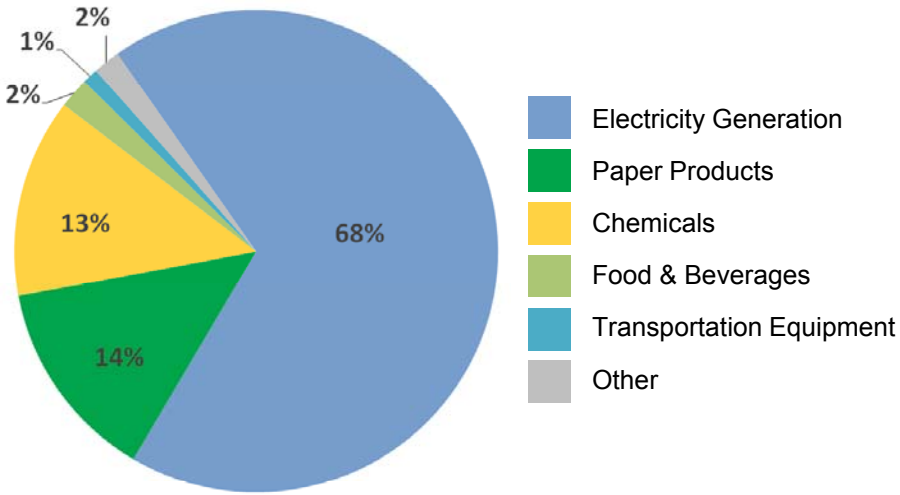
Note: The possibility of already planned retirements or pollution controls at the listed plants may also reduce emissions in future years.

Sources: EPA's Toxics Release Inventory (2009 data), accessed June 2011; EPA's National Electric Energy Data System Database v.4.10 (2010).

Toxic Industrial Air Pollution in Florida

Toxic Air Pollution by Sector



Sector	Toxic Air Pollution (lbs)	% of State Toxic Air Pollution
Electricity Generation	33,442,431	68%
Paper Products	6,658,129	14%
Chemicals	6,543,518	13%
Food & Beverages	1,001,721	2%
Transportation Equipment	519,583	1%
Other	874,565	2%
Total	**49,039,948**	**100%**

Florida Key Facts

Toxic Air Pollution
Florida's electric sector ranked **THIRD** in toxic air pollution in 2009, emitting over **33.4 million pounds** of harmful chemicals, which accounted for **68%** of state pollution and **9%** of toxic pollution from all U.S. power plants.

Mercury Pollution
Florida ranked **18th** among all states in mercury air pollution from power plants with about **1,610 pounds** emitted in 2009, which accounted for **78%** of state mercury air pollution and **2%** of U.S. electric sector pollution.

Top Power Plant Polluters

Plant Name	Owner(s)	Toxic Air Pollution (lbs)		Pollution Control Update?
		All Toxics	Mercury	
Crist	Southern	9,804,196	298	●
Crystal River	Progress Energy & Others	9,449,158	360	●
Lansing Smith	Southern	3,678,906	129	
St Johns River	JEA, NextEra Energy	2,838,015	107	
Seminole	Seminole Electric Coop	1,849,222	80	
Stanton	Orlando Utilities, Florida Municipal Power & Others	1,147,567	198	
Big Bend	TECO	1,130,908	100	
Cedar Bay	Cogentrix	971,307	74	
C D McIntosh Jr	City of Lakeland, Orlando Utilities	502,579	11	
Deerhaven	Gainesville Regional Utilities	419,348	12	●

● Pollution controls have been installed since 2009 or are currently under construction. These investments should reduce emissions of mercury and other toxic air pollutants in future years.

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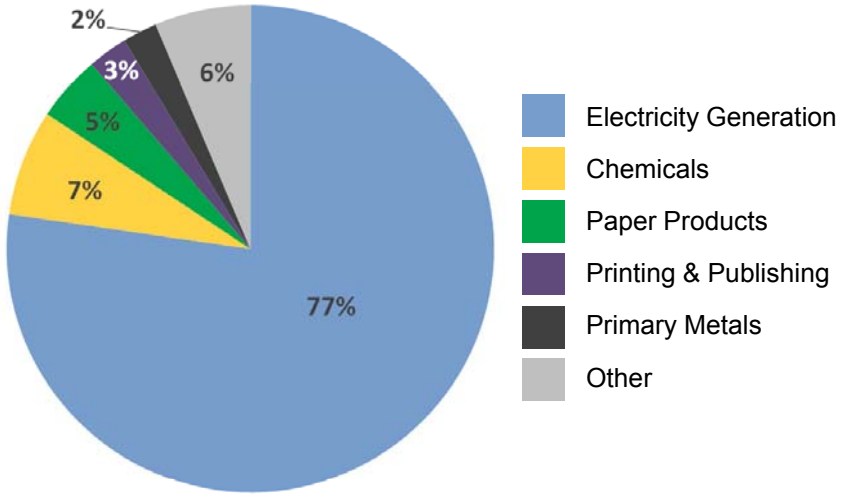
Note: The possibility of already planned retirements or pollution controls at the listed plants may also reduce emissions in future years.

Sources: EPA's Toxics Release Inventory (2009 data), accessed June 2011; EPA's National Electric Energy Data System Database v.4.10 (2010).

Toxic Industrial Air Pollution in Kentucky

Toxic Air Pollution by Sector



Sector	Toxic Air Pollution (lbs)	% of State Toxic Air Pollution
Electricity Generation	31,947,066	77%
Chemicals	2,907,708	7%
Paper Products	1,811,981	4%
Printing & Publishing	1,092,508	3%
Primary Metals	944,219	2%
Other	2,636,866	6%
Total	**41,340,348**	**100%**

Kentucky Key Facts

Toxic Air Pollution
Kentucky's electric sector ranked **FOURTH** in toxic air pollution in 2009, emitting over **31.9 million pounds** of harmful chemicals, which accounted for **77%** of state pollution and about **8%** of toxic pollution from all U.S. power plants.

Mercury Pollution
Kentucky ranked **14th** among all states in mercury air pollution from power plants with about **1,760 pounds** emitted in 2009, which accounted for **89%** of state mercury air pollution and about **2%** of U.S. electric sector pollution.

Top Power Plant Polluters

Plant Name	Owner(s)	Toxic Air Pollution (lbs)		Pollution Control Update?
		All Toxics	Mercury	
Paradise	Tennessee Valley Authority	7,713,713	170	
Big Sandy	AEP	5,437,314	334	
Ghent	PPL	4,225,878	140	●
Mill Creek	PPL	4,154,748	239	
E W Brown	PPL	2,027,273	123	●
Cooper	East Kentucky Power Coop	1,612,120	100	●
Trimble County	PPL & Others	1,165,453	85	
Cane Run	PPL	834,351	86	
East Bend	Duke, DPL	774,364	54	
Shawnee	Tennessee Valley Authority	761,659	190	

● Pollution controls have been installed since 2009 or are currently under construction. These investments should reduce emissions of mercury and other toxic air pollutants in future years.

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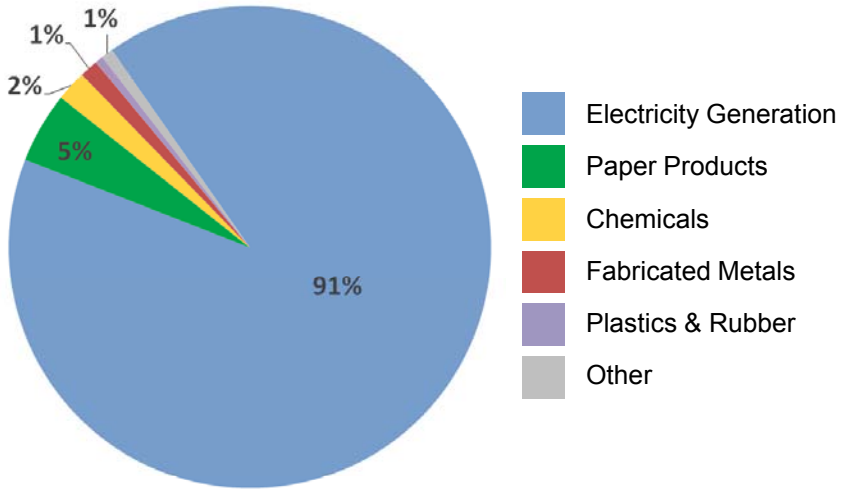
Note: The possibility of already planned retirements or pollution controls at the listed plants may also reduce emissions in future years.

Sources: EPA's Toxics Release Inventory (2009 data), accessed June 2011; EPA's National Electric Energy Data System Database v.4.10 (2010).

Toxic Industrial Air Pollution in Maryland

Toxic Air Pollution by Sector



Sector	Toxic Air Pollution (lbs)	% of State Toxic Air Pollution
Electricity Generation	27,092,233	91%
Paper Products	1,418,913	5%
Chemicals	610,921	2%
Fabricated Metals	368,027	1%
Plastics & Rubber	165,519	1%
Other	231,622	1%
Total	**29,887,235**	**100%**

Maryland Key Facts

Toxic Air Pollution
Maryland's electric sector ranked **FIFTH** in toxic air pollution in 2009, emitting nearly **27.1 million pounds** of harmful chemicals, which accounted for **91%** of state pollution and about **7%** of toxic pollution from all U.S. power plants.

Mercury Pollution
Maryland ranked **26th** among all states in mercury air pollution from power plants with about **820 pounds** emitted in 2009, which accounted for **55%** of state mercury air pollution and about **1%** of U.S. electric sector pollution.

Top Power Plant Polluters

Plant Name	Owner(s)	Toxic Air Pollution (lbs)		Pollution Control Update?
		All Toxics	Mercury *	
Brandon Shores	Constellation	13,109,753	280	●
Morgantown	GenOn	7,067,197	220	●
Chalk Point LLC	GenOn	3,962,155	220	●
Dickerson	GenOn	2,200,434	80	●
C P Crane	Constellation	621,633	14	
AES Warrior Run	AES	76,052	3	
R Paul Smith Power Station	FirstEnergy	55,008	4	

● Pollution controls have been installed since 2009 or are currently under construction. These investments should reduce emissions of mercury and other toxic air pollutants in future years.

* State has enacted stringent mercury control regulations for the electric sector.

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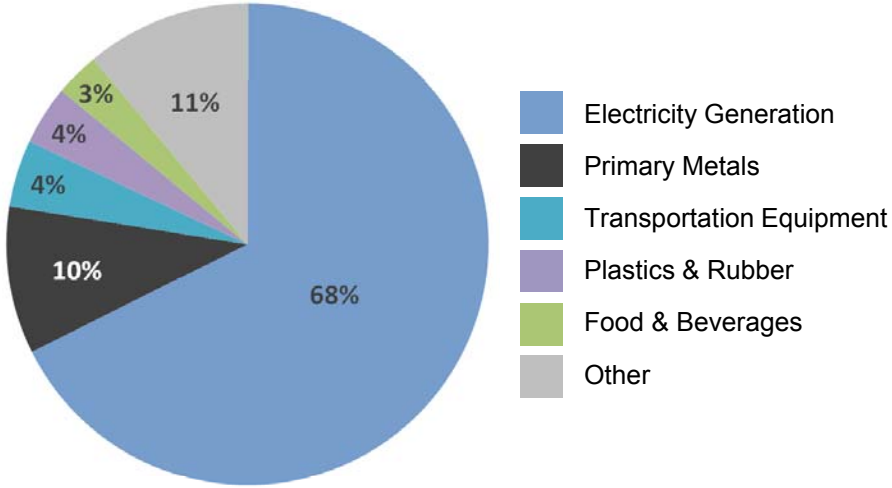
Note: The possibility of already planned retirements or pollution controls at the listed plants may also reduce emissions in future years.

Sources: EPA's Toxics Release Inventory (2009 data), accessed June 2011; EPA's National Electric Energy Data System Database v.4.10 (2010).

Toxic Industrial Air Pollution in Indiana

Toxic Air Pollution by Sector



Sector	Toxic Air Pollution (lbs)	% of State Toxic Air Pollution
Electricity Generation	26,798,135	68%
Primary Metals	3,927,788	10%
Transportation Equipment	1,776,924	4%
Plastics & Rubber	1,572,561	4%
Food & Beverages	1,177,260	3%
Other	4,382,226	11%
Total	**39,634,894**	**100%**

Indiana Key Facts

Toxic Air Pollution
Indiana's electric sector ranked **SIXTH** in toxic air pollution in 2009, emitting nearly **26.8 million pounds** of harmful chemicals, which accounted for **68%** of state pollution and **7%** of toxic pollution from all U.S. power plants.

Mercury Pollution
Indiana ranked **FOURTH** among all states in mercury air pollution from power plants with nearly **3,670 pounds** emitted in 2009, which accounted for **81%** of state mercury air pollution and **5%** of U.S. electric sector pollution.

Top Power Plant Polluters

Plant Name	Owner(s)	Toxic Air Pollution (lbs)		Pollution Control Update?
		All Toxics	Mercury	
Rockport	AEP	3,554,932	852	
AES Petersburg	AES	3,413,236	506	●
Clifty Creek	AEP & Others	2,569,618	405	●
Gibson	Duke & Others	2,180,119	142	
State Line Energy	Dominion	2,141,597	62	
R M Schahfer	NiSource	1,918,387	431	●
R Gallagher	Duke	1,681,512	19	●
Harding Street	AES	1,576,384	161	
Merom	Hoosier Energy	1,558,311	242	●
Frank E Ratts	Hoosier Energy	1,550,911	57	

● Pollution controls have been installed since 2009 or are currently under construction. These investments should reduce emissions of mercury and other toxic air pollutants in future years.

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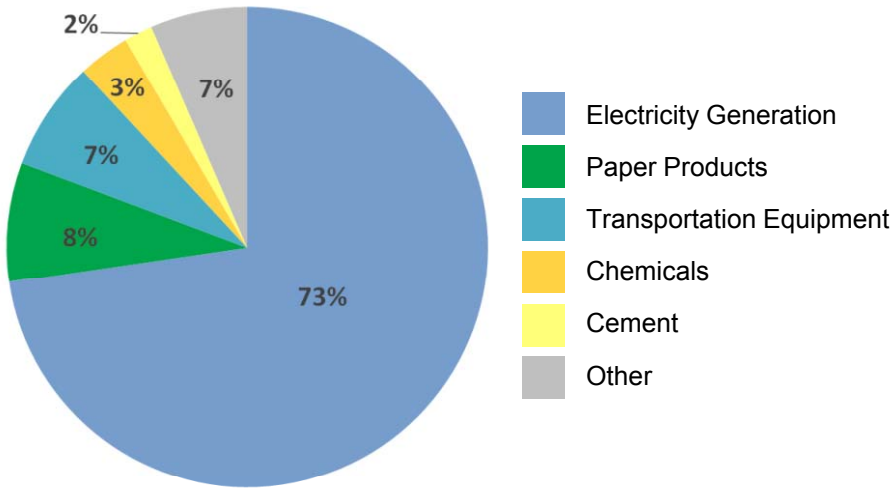
Note: The possibility of already planned retirements or pollution controls at the listed plants may also reduce emissions in future years.

Sources: EPA's Toxics Release Inventory (2009 data), accessed June 2011; EPA's National Electric Energy Data System Database v.4.10 (2010).

Toxic Industrial Air Pollution in Michigan

Toxic Air Pollution by Sector



Sector	Toxic Air Pollution (lbs)	% of State Toxic Air Pollution
Electricity Generation	22,731,782	73%
Paper Products	2,509,690	8%
Transportation Equipment	2,305,549	7%
Chemicals	1,089,073	3%
Cement	598,576	2%
Other	2,041,620	7%
Total	**31,276,291**	**100%**

Michigan Key Facts

Toxic Air Pollution
Michigan's electric sector ranked **SEVENTH** in toxic air pollution in 2009, emitting over **22.7 million pounds** of harmful chemicals, which accounted for **73%** of state pollution and **6%** of toxic pollution from all U.S. power plants.

Mercury Pollution
Michigan ranked **SEVENTH** among all states in mercury air pollution from power plants with about **2,790 pounds** emitted in 2009, which accounted for **87%** of state mercury air pollution and **4%** of U.S. electric sector pollution.

Top Power Plant Polluters

Plant Name	Owner(s)	Toxic Air Pollution (lbs)		Pollution Control Update?
		All Toxics	Mercury	
Monroe	DTE Energy	9,691,081	848	●
Trenton Channel	DTE Energy	2,306,058	185	
Dan E Karn / J C Weadlock	CMS Energy	1,709,371	197	●
J H Campbell	CMS Energy & Others	1,500,241	431	
River Rouge	DTE Energy	1,277,897	153	
St Clair	DTE Energy	1,256,389	280	
Eckert Station	Lansing Board of Water & Light	1,112,071	71	
Erickson Station	Lansing Board of Water & Light	911,495	58	
B C Cobb	CMS Energy	664,819	79	
J R Whiting	CMS Energy	481,558	85	

● Pollution controls have been installed since 2009 or are currently under construction. These investments should reduce emissions of mercury and other toxic air pollutants in future years.

* State has enacted stringent mercury control regulations for the electric sector.

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Note: The possibility of already planned retirements or pollution controls at the listed plants may also reduce emissions in future years.

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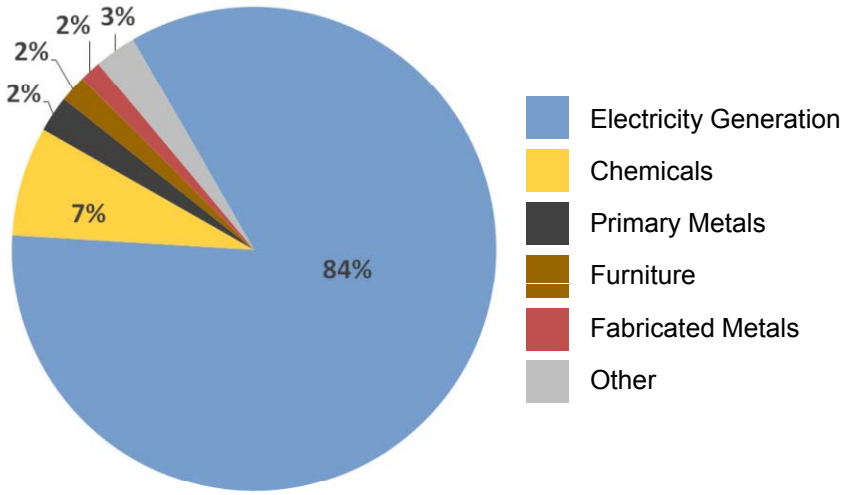
Toxic Industrial Air Pollution in West Virginia

Toxic Air Pollution by Sector



Sector	Toxic Air Pollution (lbs)	% of State Toxic Air Pollution
Electricity Generation	21,486,688	84%
Chemicals	1,850,122	7%
Primary Metals	618,192	2%
Furniture	456,502	2%
Fabricated Metals	371,631	1%
Other	710,127	3%
Total	**25,493,261**	**100%**

West Virginia Key Facts

Toxic Air Pollution
West Virginia's electric sector ranked **EIGHTH** in toxic air pollution in 2009, emitting nearly **21.5 million pounds** of harmful chemicals, which accounted for **84%** of state pollution and **6%** of toxic pollution from all U.S. power plants.

Mercury Pollution
West Virginia ranked **10th** among all states in mercury air pollution from power plants with about **2,520 pounds** emitted in 2009, which accounted for **94%** of state mercury air pollution and **4%** of U.S. electric sector pollution.

Top Power Plant Polluters

Plant Name	Owner(s)	Toxic Air Pollution (lbs)		Pollution Control Update?
		All Toxics	Mercury	
John E Amos	AEP	6,675,594	526	●
Harrison Power Station	FirstEnergy	3,785,973	134	
Willow Island	FirstEnergy	2,476,084	79	
Philip Sporn	AEP	2,265,656	132	
Fort Martin Power Station	FirstEnergy	1,894,128	329	●
Kammer	AEP	1,664,782	364	
Kanawha River	AEP	1,384,944	82	
Mt Storm	Dominion	668,969	309	
Mountaineer	AEP	409,056	311	
Albright	FirstEnergy	217,091	79	

● Pollution controls have been installed since 2009 or are currently under construction. These investments should reduce emissions of mercury and other toxic air pollutants in future years.

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Note: The possibility of already planned retirements or pollution controls at the listed plants may also reduce emissions in future years.

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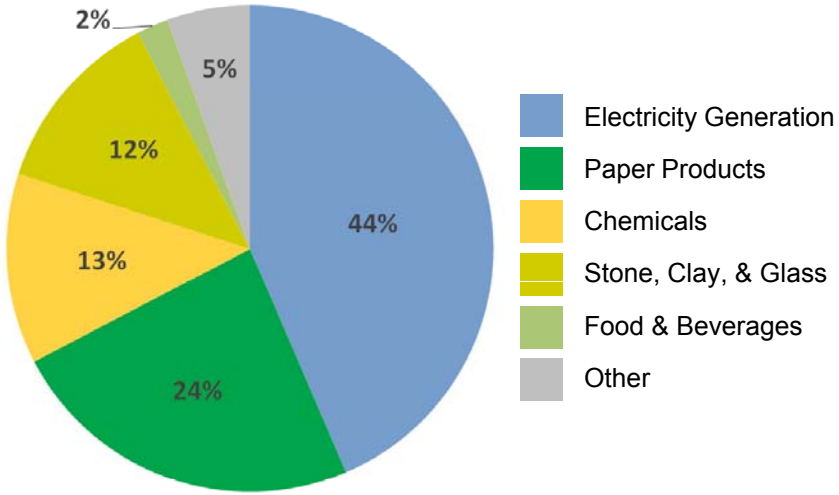
Toxic Industrial Air Pollution in Georgia

Toxic Air Pollution by Sector



Sector	Toxic Air Pollution (lbs)	% of State Toxic Air Pollution
Electricity Generation	18,246,617	44%
Paper Products	9,962,289	24%
Chemicals	5,313,550	13%
Stone, Clay, & Glass	5,192,392	12%
Food & Beverages	880,711	2%
Other	2,307,289	6%
Total	**41,902,848**	**100%**

Georgia Key Facts

Toxic Air Pollution
Georgia's electric sector ranked **NINTH** in toxic air pollution in 2009, emitting over **18.2 million pounds** of harmful chemicals, which accounted for **44%** of state pollution and **5%** of toxic pollution from all U.S. power plants.

Mercury Pollution
Georgia ranked **13th** among all states in mercury air pollution from power plants with **1,950 pounds** emitted in 2009, which accounted for **82%** of state mercury air pollution and **3%** of U.S. electric sector pollution.

Top Power Plant Polluters

Plant Name	Owner(s)	Toxic Air Pollution (lbs)		Pollution Control Update?
		All Toxics	Mercury	
Harllee Branch	Southern	6,155,089	266	
Bowen	Southern	5,431,270	264	●
Yates	Southern	2,284,074	257	
Wansley	Southern, Oglethorpe & Others	1,738,841	79	●
Scherer	Oglethorpe, Southern & Others	1,160,202	889	●
Jack McDonough	Southern	643,347	90	
Hammond	Southern	371,277	64	
McIntosh	Southern	250,048	0	
Kraft	Southern	212,162	41	
Mid-Georgia Cogeneration	Perennial Power Holdings	300	0	

● Pollution controls have been installed since 2009 or are currently under construction. These investments should reduce emissions of mercury and other toxic air pollutants in future years.

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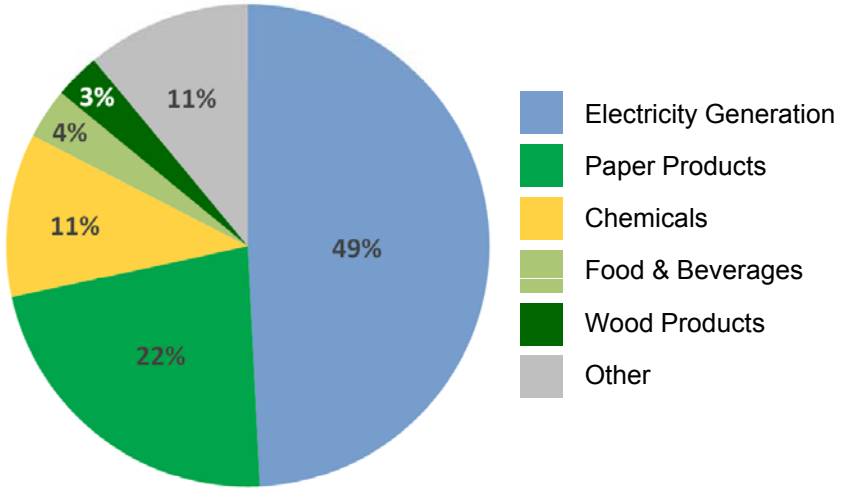
Note: The possibility of already planned retirements or pollution controls at the listed plants may also reduce emissions in future years.

Sources: EPA's Toxics Release Inventory (2009 data), accessed June 2011; EPA's National Electric Energy Data System Database v.4.10 (2010).

Toxic Industrial Air Pollution in North Carolina

Toxic Air Pollution by Sector



Sector	Toxic Air Pollution (lbs)	% of State Toxic Air Pollution
Electricity Generation	14,907,994	49%
Paper Products	6,780,337	22%
Chemicals	3,325,752	11%
Food & Beverages	1,025,463	3%
Wood Products	928,268	3%
Other	3,328,196	11%
Total	**30,296,011**	**100%**

North Carolina Key Facts

Toxic Air Pollution
North Carolina's electric sector ranked **10th** in toxic air pollution in 2009, emitting about **14.9 million pounds** of harmful chemicals, which accounted for **49%** of state pollution and **4%** of toxic pollution from all U.S. power plants.

Mercury Pollution
North Carolina ranked **23rd** among all states in mercury air pollution from power plants with about **1,220 pounds** emitted in 2009, which accounted for **68%** of state mercury air pollution and **2%** of U.S. electric sector pollution.

Top Power Plant Polluters

Plant Name	Owner(s)	Toxic Air Pollution (lbs)		Pollution Control Update?
		All Toxics	Mercury	
Cliffside	Duke	3,516,790	141	●
L V Sutton	Progress Energy	2,112,951	110	
Lee	Progress Energy	1,641,812	88	
G G Allen	Duke	1,431,792	114	●
Cape Fear	Progress Energy	1,430,019	68	
Mayo	Progress Energy & Others	1,000,178	96	●
Belew s Creek	Duke	882,446	146	
Marshall	Duke	748,885	289	
Riverbend	Duke	548,850	31	
Buck	Duke	499,018	28	

● Pollution controls have been installed since 2009 or are currently under construction. These investments should reduce emissions of mercury and other toxic air pollutants in future years.

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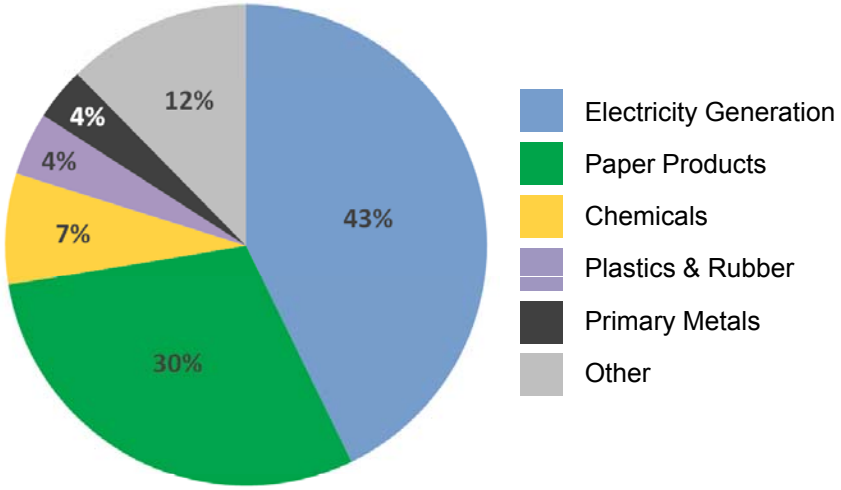
Note: The possibility of already planned retirements or pollution controls at the listed plants may also reduce emissions in future years.

Sources: EPA's Toxics Release Inventory (2009 data), accessed June 2011; EPA's National Electric Energy Data System Database v.4.10 (2010).

Toxic Industrial Air Pollution in South Carolina

Toxic Air Pollution by Sector



Sector	Toxic Air Pollution (lbs)	% of State Toxic Air Pollution
Electricity Generation	11,453,391	43%
Paper Products	7,927,152	30%
Chemicals	1,997,620	7%
Plastics & Rubber	1,136,434	4%
Primary Metals	950,644	4%
Other	3,308,798	12%
Total	**26,774,040**	**100%**

South Carolina Key Facts

Toxic Air Pollution
South Carolina's electric sector ranked **11th** in toxic air pollution in 2009, emitting about **11.5 million pounds** of harmful chemicals, which accounted for **43%** of state pollution and **3%** of toxic pollution from all U.S. power plants.

Mercury Pollution
South Carolina ranked **31st** among all states in mercury air pollution from power plants with nearly **560 pounds** emitted in 2009, which accounted for **44%** of state mercury air pollution and **1%** of U.S. electric sector pollution.

Top Power Plant Polluters

Plant Name	Owner(s)	Toxic Air Pollution (lbs)		Pollution Control Update?
		All Toxics	Mercury	
Williams	SCANA	3,010,392	157	●
Wateree	SCANA	2,670,765	46	●
Cross	Santee Cooper	1,115,336	114	
Canadys Steam	SCANA	947,934	39	
H B Robinson	Progress Energy	867,223	27	
Winyah	Santee Cooper	762,052	57	
McMeekin	SCANA	742,004	13	
W S Lee	Duke	504,476	27	
Urquhart	SCANA	340,940	23	
Jefferies	Santee Cooper	173,107	10	

● Pollution controls have been installed since 2009 or are currently under construction. These investments should reduce emissions of mercury and other toxic air pollutants in future years.

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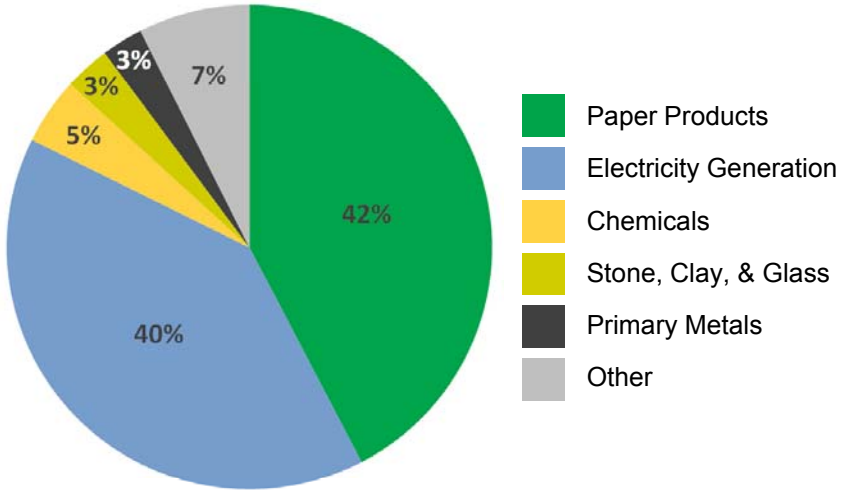
Note: The possibility of already planned retirements or pollution controls at the listed plants may also reduce emissions in future years.

Sources: EPA's Toxics Release Inventory (2009 data), accessed June 2011; EPA's National Electric Energy Data System Database v.4.10 (2010).

Toxic Industrial Air Pollution in Alabama

Toxic Air Pollution by Sector



Sector	Toxic Air Pollution (lbs)	% of State Toxic Air Pollution
Paper Products	12,102,413	42%
Electricity Generation	11,418,246	40%
Chemicals	1,276,945	4%
Stone, Clay, & Glass	871,347	3%
Primary Metals	787,314	3%
Other	2,116,812	7%
Total	**28,573,077**	**100%**

Alabama Key Facts

Toxic Air Pollution
Alabama's electric sector ranked **12th** in toxic air pollution in 2009, emitting over **11.4 million pounds** of harmful chemicals, which accounted for **40%** of state pollution and **3%** of toxic pollution from all U.S. power plants.

Mercury Pollution
Alabama ranked **SIXTH** among all states in mercury air pollution from power plants with over **3,170 pounds** emitted in 2009, which accounted for **79%** of state mercury air pollution and about **4%** of U.S. electric sector pollution.

Top Power Plant Polluters

Plant Name	Owner(s)	Toxic Air Pollution (lbs)		Pollution Control Update?
		All Toxics	Mercury	
E C Gaston	Southern	3,864,388	545	●
Widow s Creek	Tennessee Valley Authority	1,565,453	83	●
Barry	Southern	1,457,332	426	●
James H Miller Jr	Southern & Others	1,042,448	1,206	●
Greene County	Southern	1,013,924	403	
Charles R Low man	Pow erSouth Energy Cooperative	795,077	37	●
Colbert	Tennessee Valley Authority	724,462	100	
Gorgas	Southern	705,991	272	
Mobile Energy Services LLC	DTE Energy	181,623	20	
Gadsden	Southern	67,548	82	

● Pollution controls have been installed since 2009 or are currently under construction. These investments should reduce emissions of mercury and other toxic air pollutants in future years.

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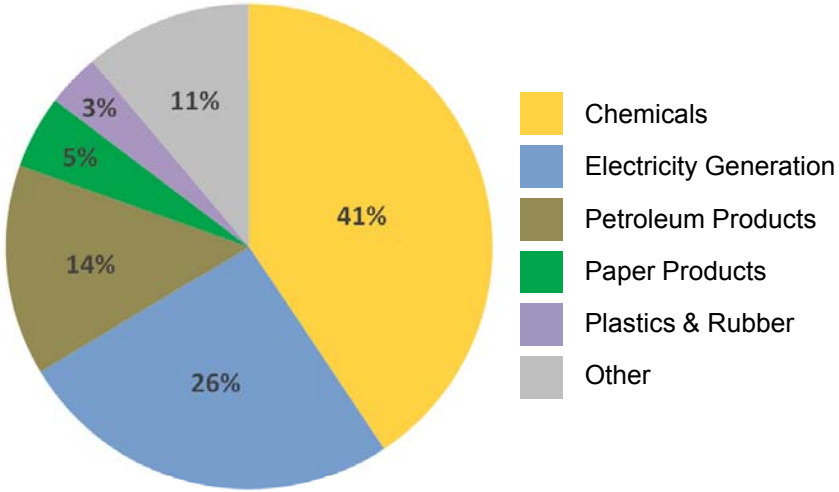
Note: The possibility of already planned retirements or pollution controls at the listed plants may also reduce emissions in future years.

Sources: EPA's Toxics Release Inventory (2009 data), accessed June 2011; EPA's National Electric Energy Data System Database v.4.10 (2010).

Toxic Industrial Air Pollution in Texas

Toxic Air Pollution by Sector



Sector	Toxic Air Pollution (lbs)	% of State Toxic Air Pollution
Chemicals	16,028,305	41%
Electricity Generation	10,155,177	26%
Petroleum Products	5,544,041	14%
Paper Products	1,923,754	5%
Plastics & Rubber	1,404,543	4%
Other	4,386,331	11%
Total	**39,442,151**	**100%**

Texas Key Facts

Toxic Air Pollution
Texas's electric sector ranked **13th** in toxic air pollution in 2009, emitting nearly **10.2 million pounds** of harmful chemicals, which accounted for **26%** of state pollution and about **3%** of toxic pollution from all U.S. power plants.

Mercury Pollution
Texas ranked **FIRST** among all states in mercury air pollution from power plants with nearly **10,820 pounds** emitted in 2009, which accounted for **85%** of state mercury air pollution and **15%** of U.S. electric sector mercury pollution.

Top Power Plant Polluters

Plant Name	Owner(s)	Toxic Air Pollution (lbs)		Pollution Control Update?
		All Toxics	Mercury	
Monticello	Energy Future Holdings	3,622,494	1,063	
Big Brown	Energy Future Holdings	1,679,568	1,362	
Martin Lake	Energy Future Holdings	930,935	1,566	
W A Parish	NRG	668,821	845	
Limestone	NRG	378,252	1,077	
Fayette Power Projec	Austin Energy, Lower Colorado River Authority	327,122	380	●
San Miguel	Brazos Electric Power Coop., South Texas Electric	311,709	524	
Harrington	Xcel	296,703	290	
Welsh	AEP	288,273	462	
Tolk	Xcel	272,185	248	

● Pollution controls have been installed since 2009 or are currently under construction. These investments should reduce emissions of mercury and other toxic air pollutants in future years.

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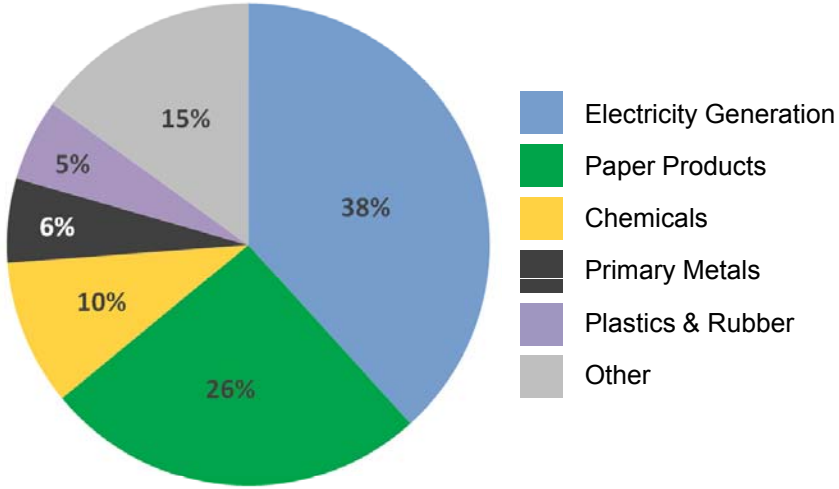
Note: The possibility of already planned retirements or pollution controls at the listed plants may also reduce emissions in future years.

Sources: EPA's Toxics Release Inventory (2009 data), accessed June 2011; EPA's National Electric Energy Data System Database v.4.10 (2010).

Toxic Industrial Air Pollution in Virginia

Toxic Air Pollution by Sector



Sector	Toxic Air Pollution (lbs)	% of State Toxic Air Pollution
Electricity Generation	9,649,281	38%
Paper Products	6,488,679	26%
Chemicals	2,470,838	10%
Primary Metals	1,418,573	6%
Plastics & Rubber	1,383,167	5%
Other	3,794,829	15%
Total	**25,205,367**	**100%**

Virginia Key Facts

Toxic Air Pollution
Virginia's electric sector ranked **14th** in toxic air pollution in 2009, emitting over **9.6 million pounds** of harmful chemicals, which accounted for **38%** of state pollution and **3%** of toxic pollution from all U.S. power plants.

Mercury Pollution
Virginia ranked **28th** among all states in mercury air pollution from power plants with about **700 pounds** emitted in 2009, which accounted for **66%** of state mercury air pollution and **1%** of U.S. electric sector pollution.

Top Power Plant Polluters

Plant Name	Owner(s)	Toxic Air Pollution (lbs)		Pollution Control Update?
		All Toxics	Mercury	
Chesterfield	Dominion	2,741,968	180	●
Chesapeake	Dominion	2,023,315	140	
Clinch River	AEP	1,159,899	59	
Yorktown	Dominion	1,056,592	89	
Bremo Bluff	Dominion	575,957	98	
Clover	Dominion, Old Dominion Electric Coop.	361,555	15	
Hopewell Cogeneration	SUEZ Energy	326,472	0	
James River Cogeneration	Cogentrix	292,404	17	●
DEGS of Narrows LLC	Duke	234,376	34	
Glen Lyn	AEP	217,028	15	

● Pollution controls have been installed since 2009 or are currently under construction. These investments should reduce emissions of mercury and other toxic air pollutants in future years.

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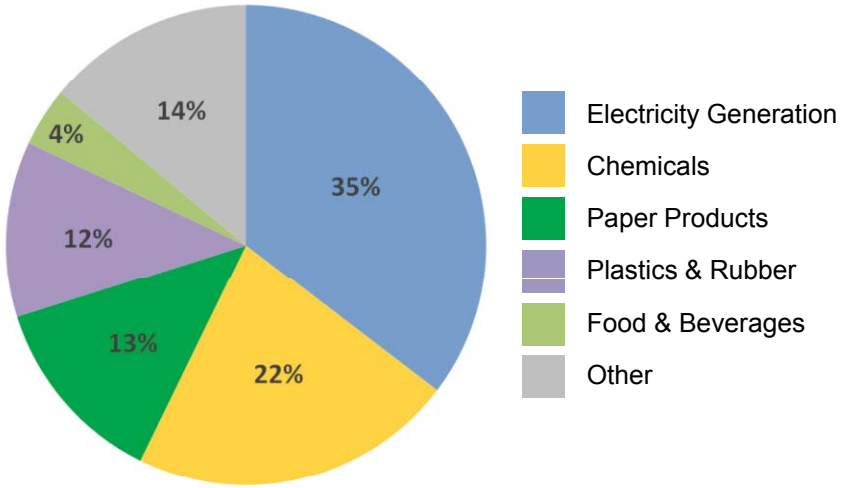
Note: The possibility of already planned retirements or pollution controls at the listed plants may also reduce emissions in future years.

Sources: EPA's Toxics Release Inventory (2009 data), accessed June 2011; EPA's National Electric Energy Data System Database v.4.10 (2010).

Toxic Industrial Air Pollution in Tennessee

Toxic Air Pollution by Sector



Sector	Toxic Air Pollution (lbs)	% of State Toxic Air Pollution
Electricity Generation	8,864,747	35%
Chemicals	5,489,828	22%
Paper Products	3,226,994	13%
Plastics & Rubber	2,975,428	12%
Food & Beverages	996,002	4%
Other	3,517,571	14%
Total	**25,070,569**	**100%**

Tennessee Key Facts

Toxic Air Pollution
Tennessee's electric sector ranked **15th** in toxic air pollution in 2009, emitting nearly **8.9 million pounds** of harmful chemicals, which accounted for **35%** of state pollution and **2%** of toxic pollution from all U.S. power plants.

Mercury Pollution
Tennessee ranked **24th** among all states in mercury air pollution from power plants with about **1,170 pounds** emitted in 2009, which accounted for **70%** of state mercury air pollution and **2%** of U.S. electric sector pollution.

Top Power Plant Polluters

Plant Name	Owner(s)	Toxic Air Pollution (lbs)		Pollution Control Update?
		All Toxics	Mercury	
Cumberland	Tennessee Valley Authority	3,598,226	140	
Johnsonville	Tennessee Valley Authority	2,187,147	190	
Kingston	Tennessee Valley Authority	1,072,082	100	●
Allen Steam Plant	Tennessee Valley Authority	917,939	190	
John Sevier	Tennessee Valley Authority	574,036	240	
Gallatin	Tennessee Valley Authority	280,414	280	
Bull Run	Tennessee Valley Authority	234,902	33	

● Pollution controls have been installed since 2009 or are currently under construction. These investments should reduce emissions of mercury and other toxic air pollutants in future years.

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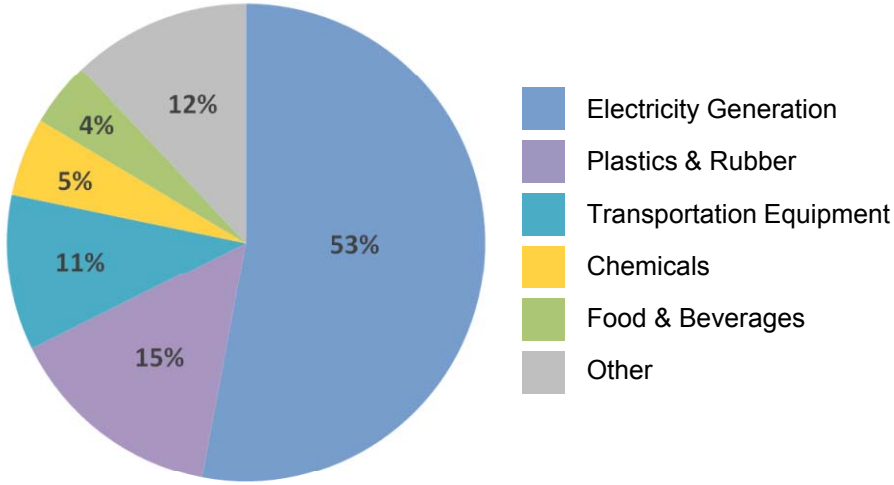
Note: The possibility of already planned retirements or pollution controls at the listed plants may also reduce emissions in future years.

Sources: EPA's Toxics Release Inventory (2009 data), accessed June 2011; EPA's National Electric Energy Data System Database v.4.10 (2010).

Toxic Industrial Air Pollution in Missouri

Toxic Air Pollution by Sector



Sector	Toxic Air Pollution (lbs)	% of State Toxic Air Pollution
Electricity Generation	6,360,329	53%
Plastics & Rubber	1,767,336	15%
Transportation Equipment	1,270,931	11%
Chemicals	633,995	5%
Food & Beverages	529,517	4%
Other	1,449,518	12%
Total	**12,011,626**	**100%**

Missouri Key Facts

Toxic Air Pollution
Missouri's electric sector ranked **16th** in toxic air pollution in 2009, emitting nearly **6.4 million pounds** of harmful chemicals, which accounted for **53%** of state pollution and **2%** of toxic pollution from all U.S. power plants.

Mercury Pollution
Missouri ranked **FIFTH** among all states in mercury air pollution from power plants with nearly **3,640 pounds** emitted in 2009, which accounted for **87%** of state mercury air pollution and **5%** of U.S. electric sector pollution.

Top Power Plant Polluters

Plant Name	Owner(s)	Toxic Air Pollution (lbs)		Pollution Control Update?
		All Toxics	Mercury	
Sioux	Ameren	2,344,989	306	●
Labadie	Ameren	740,546	1,297	
Asbury	Empire District Electric Co	542,499	32	
Columbia	City of Columbia	540,092	3	
Thomas Hill	Associated Electric Coop	372,062	270	
New Madrid	Associated Electric Coop	335,140	150	
Rush Island	Ameren	271,242	553	
Meramec	Ameren	213,271	336	
Montrose	Great Plains Energy	211,659	129	
Sibley	Great Plains Energy	170,590	46	

● Pollution controls have been installed since 2009 or are currently under construction. These investments should reduce emissions of mercury and other toxic air pollutants in future years.

NRDC
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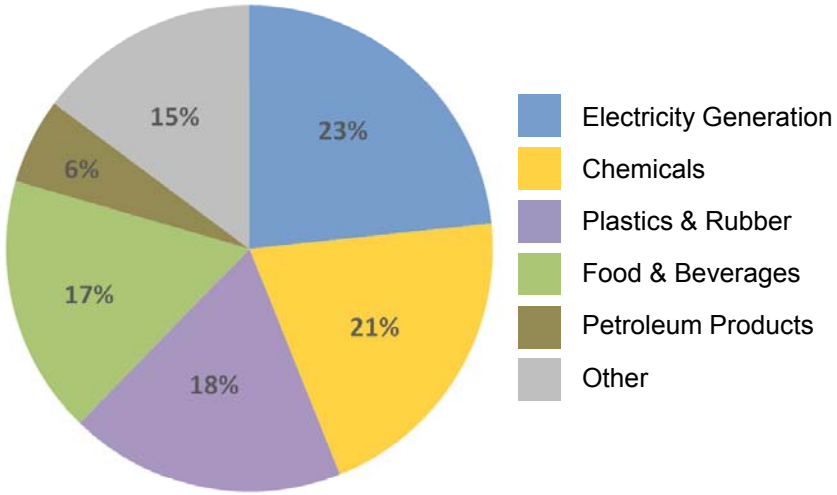
Note: The possibility of already planned retirements or pollution controls at the listed plants may also reduce emissions in future years.

Sources: EPA's Toxics Release Inventory (2009 data), accessed June 2011; EPA's National Electric Energy Data System Database v.4.10 (2010).

Toxic Industrial Air Pollution in Illinois

Toxic Air Pollution by Sector



Sector	Toxic Air Pollution (lbs)	% of State Toxic Air Pollution
Electricity Generation	5,583,222	23%
Chemicals	4,923,597	21%
Plastics & Rubber	4,388,135	18%
Food & Beverages	4,117,318	17%
Petroleum Products	1,364,353	6%
Other	3,540,391	15%
Total	**23,917,015**	**100%**

Illinois Key Facts

Toxic Air Pollution
Illinois's electric sector ranked **17th** in toxic air pollution in 2009, emitting nearly **5.6 million pounds** of harmful chemicals, which accounted for **23%** of state pollution and **1%** of toxic pollution from all U.S. power plants.

Mercury Pollution
Illinois ranked **EIGHTH** among all states in mercury air pollution from power plants with about **2,680 pounds** emitted in 2009, which accounted for **79%** of state mercury air pollution and **4%** of U.S. electric sector pollution.

Top Power Plant Polluters

Plant Name	Owner(s)	Toxic Air Pollution (lbs)		Pollution Control Update?
		All Toxics	Mercury *	
Baldwin Energy Complex	Dynegy	889,111	320	●
Coffeen	Ameren	521,774	214	●
Tuscola Station	SUEZ Energy, Duke	507,528	18	
Newton	Ameren	488,098	360	●
Powerton	Edison International	443,992	136	
Kincaid Generation LLC	Dominion	417,693	233	
Joliet 29	Edison International	372,260	212	
Joppa Steam	Ameren, PPL	278,049	259	●
Dallman	City of Springfield	244,559	17	
Will County	Edison International	241,913	168	

● Pollution controls have been installed since 2009 or are currently under construction. These investments should reduce emissions of mercury and other toxic air pollutants in future years.

* State has enacted stringent mercury control regulations for the electric sector.

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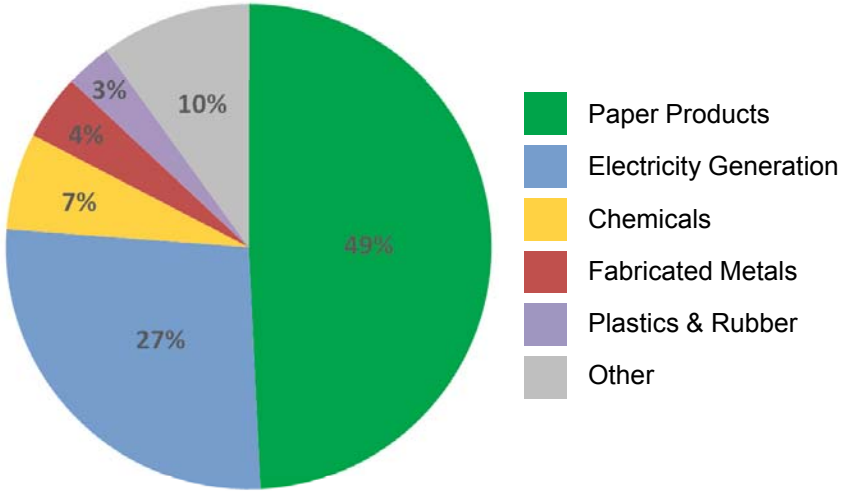
Note: The possibility of already planned retirements or pollution controls at the listed plants may also reduce emissions in future years.

Sources: EPA's Toxics Release Inventory (2009 data), accessed June 2011; EPA's National Electric Energy Data System Database v.4.10 (2010).

Toxic Industrial Air Pollution in Wisconsin

Toxic Air Pollution by Sector



Sector	Toxic Air Pollution (lbs)	% of State Toxic Air Pollution
Paper Products	6,306,109	49%
Electricity Generation	3,451,772	27%
Chemicals	825,613	6%
Fabricated Metals	557,403	4%
Plastics & Rubber	392,729	3%
Other	1,276,555	10%
Total	**12,810,181**	**100%**

Wisconsin Key Facts

Toxic Air Pollution
Wisconsin's electric sector ranked **18th** in toxic air pollution in 2009, emitting nearly **3.5 million pounds** of harmful chemicals, which accounted for **27%** of state pollution and about **1%** of toxic pollution from all U.S. power plants.

Mercury Pollution
Wisconsin ranked **12th** among all states in mercury air pollution from power plants with nearly **2,000 pounds** emitted in 2009, which accounted for **91%** of state mercury air pollution and **3%** of U.S. electric sector pollution.

Top Power Plant Polluters

Plant Name	Owner(s)	Toxic Air Pollution (lbs)		Pollution Control Update?
		All Toxics	Mercury *	
Alma	Dairyland Power Coop	832,523	72	
Nelson Dewey	Alliant Energy	551,245	40	
Columbia	Alliant Energy, Integrys, Madison Gas & Electric	410,088	626	
Valley	Wisconsin Energy	386,718	5	
Pleasant Prairie	Wisconsin Energy	347,319	527	
Genoa	Dairyland Power Coop	237,993	38	●
Edgewater	Alliant Energy & Others	207,681	177	
South Oak Creek	Wisconsin Energy	167,200	190	
Weston	Integrys, Dairyland Power Coop.	88,445	190	●
Pulliam	Integrys	58,663	100	●

● Pollution controls have been installed since 2009 or are currently under construction. These investments should reduce emissions of mercury and other toxic air pollutants in future years.

* State has enacted stringent mercury control regulations for the electric sector.

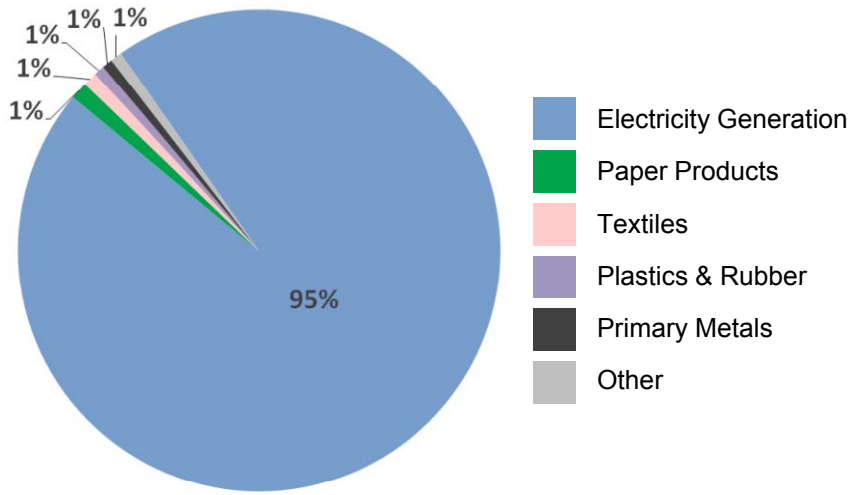
NRDC
THE EARTH'S BEST DEFENSE

Note: The possibility of already planned retirements or pollution controls at the listed plants may also reduce emissions in future years.

Sources: EPA's Toxics Release Inventory (2009 data), accessed June 2011; EPA's National Electric Energy Data System Database v.4.10 (2010).

Toxic Industrial Air Pollution in New Hampshire

Toxic Air Pollution by Sector



Sector	Toxic Air Pollution (lbs)	% of State Toxic Air Pollution
Electricity Generation	2,519,676	96%
Paper Products	31,051	1%
Textiles	24,793	1%
Plastics & Rubber	18,829	1%
Primary Metals	18,527	1%
Other	20,267	1%
Total	**2,633,143**	**100%**

New Hampshire Key Facts

Toxic Air Pollution
New Hampshire's electric sector ranked **19th** in toxic air pollution in 2009, emitting over **2.5 million pounds** of harmful chemicals, which accounted for **96%** of state pollution and about **1%** of toxic pollution from all U.S. power plants.

Mercury Pollution
New Hampshire ranked **38th** among all states in mercury air pollution from power plants with **175 pounds** emitted in 2009, which accounted for **99%** of state mercury air pollution and less than **1%** of U.S. electric sector pollution.

Top Power Plant Polluters

Plant Name	Owner(s)	Toxic Air Pollution (lbs)		Pollution Control Update?
		All Toxics	Mercury	
Merrimack	Public Service Co of NH	2,254,216	160	●
Schiller	Public Service Co of NH	223,866	15	
New ington	Public Service Co of NH	29,604	1	
NAEA New ington Pow er	North American Energy Alliance	11,271	0	
Indeck Alexandria	Indeck	720	0	

● Pollution controls have been installed since 2009 or are currently under construction. These investments should reduce emissions of mercury and other toxic air pollutants in future years.

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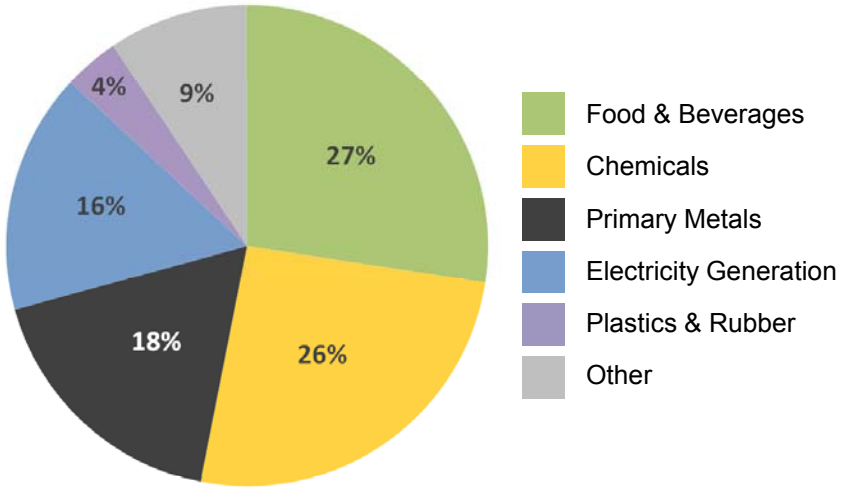
Note: The possibility of already planned retirements or pollution controls at the listed plants may also reduce emissions in future years.

Sources: EPA's Toxics Release Inventory (2009 data), accessed June 2011; EPA's National Electric Energy Data System Database v.4.10 (2010).

Toxic Industrial Air Pollution in Iowa

Toxic Air Pollution by Sector



Sector	Toxic Air Pollution (lbs)	% of State Toxic Air Pollution
Food & Beverages	4,216,459	27%
Chemicals	3,945,660	26%
Primary Metals	2,708,784	18%
Electricity Generation	2,486,771	16%
Plastics & Rubber	574,086	4%
Other	1,438,910	9%
Total	**15,370,670**	**100%**

Iowa Key Facts

Toxic Air Pollution
Iowa's electric sector ranked **20th** in toxic air pollution in 2009, emitting nearly **2.5 million pounds** of harmful chemicals, which accounted for **16%** of state pollution and less than **1%** of toxic pollution from all U.S. power plants.

Mercury Pollution
Iowa ranked **11th** among all states in mercury air pollution from power plants with about **2,220 pounds** emitted in 2009, which accounted for **83%** of state mercury air pollution and about **3%** of U.S. electric sector pollution.

Top Power Plant Polluters

Plant Name	Owner(s)	Toxic Air Pollution (lbs)		Pollution Control Update?
		All Toxics	Mercury	
George Neal North	MidAmerican, Alliant Energy	801,266	400	
George Neal South	MidAmerican, Alliant Energy & Others	489,297	260	
Walter Scott Jr Energy Center	MidAmerican & Others	348,970	340	●
Ottumwa	MidAmerican, Alliant Energy	192,948	323	
Fair Station	Central Iowa Power Cooperative	118,446	16	
Ames Electric Services Power Pla	Ames City of	113,969	17	
Lansing	Alliant Energy	93,872	167	●
Riverside	MidAmerican	93,330	40	
Burlington	Alliant Energy	59,603	132	
Muscatine Plant #1	Board of Water Electric &	43,401	120	

● Pollution controls have been installed since 2009 or are currently under construction. These investments should reduce emissions of mercury and other toxic air pollutants in future years.

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Note: The possibility of already planned retirements or pollution controls at the listed plants may also reduce emissions in future years.

Sources: EPA's Toxics Release Inventory (2009 data), accessed June 2011; EPA's National Electric Energy Data System Database v.4.10 (2010).

Appendix: State Summary Table

State	Electric Sector Rank by In-State Toxic Air Pollution	Total Industrial Toxic Air Pollution (lbs)	Electric Sector Toxic Air Pollution (lbs)	Electric Sector Contribution to State Toxic Air Pollution (%)	Status of State Mercury Regulations
Alabama	2	28,573,077	11,418,246	40%	
Alaska	1	159,463	60,487	38%	
Arizona	1	2,126,315	907,173	43%	
Arkansas	2	11,117,456	1,366,705	12%	
California	7	7,447,971	273,998	4%	
Colorado	1	1,702,504	917,925	54%	●
Connecticut	2	1,522,453	404,466	27%	●
Delaware	1	3,054,356	2,430,253	80%	●
District of Columbia	1	4	3	59%	
Florida	1	49,039,948	33,442,431	68%	
Georgia	1	41,902,848	18,246,617	44%	●
Hawaii	1	1,984,530	1,819,678	92%	
Idaho	15	2,586,572	0	0%	
Illinois	1	23,917,015	5,583,222	23%	●
Indiana	1	39,634,894	26,798,135	68%	
Iowa	4	15,370,670	2,486,771	16%	
Kansas	3	6,275,444	995,054	16%	
Kentucky	1	41,340,348	31,947,066	77%	
Louisiana	4	34,505,184	1,393,764	4%	
Maine	15	2,664,694	6	0%	
Maryland	1	29,887,235	27,092,233	91%	●
Massachusetts	1	2,578,736	1,768,347	69%	●
Michigan	1	31,276,291	22,731,782	73%	●
Minnesota	2	6,959,957	1,063,733	15%	●
Mississippi	3	13,127,345	2,026,087	15%	
Missouri	1	12,011,626	6,360,329	53%	

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● State has an electric sector mercury regulation that is **at least as** stringent as EPA's proposed utility air toxics rule.

● State has an electric sector mercury regulation that is **less** stringent than EPA's proposed utility air toxics rule.

Sources: EPA's Toxic Release Inventory (2009 data), accessed June 2011; State environmental departments.

Appendix: State Summary Table (Continued)

State	Electric Sector Rank by In-State Toxic Air Pollution	Total Industrial Toxic Air Pollution (lbs)	Electric Sector Toxic Air Pollution (lbs)	Electric Sector Contribution to State Toxic Air Pollution (%)	Status of State Mercury Regulations
Montana	2	1,987,675	430,210	22%	●
Nebraska	1	4,944,667	1,785,373	36%	
Nevada	1	632,177	314,897	50%	
New Hampshire	1	2,633,143	2,519,676	96%	●
New Jersey	1	3,592,027	1,901,291	53%	●
New Mexico	1	699,535	487,934	70%	
New York	1	7,767,230	2,333,947	30%	●
North Carolina	1	30,296,011	14,907,994	49%	●
North Dakota	2	3,399,743	1,101,850	32%	
Ohio	1	68,863,474	44,545,704	65%	
Oklahoma	3	12,152,283	1,155,134	10%	
Oregon	7	4,862,469	102,514	2%	●
Pennsylvania	1	50,527,280	41,459,532	82%	
Rhode Island	5	116,379	15,580	13%	
South Carolina	1	26,774,040	11,453,391	43%	●
South Dakota	3	873,461	120,504	14%	
Tennessee	1	25,070,569	8,864,747	35%	
Texas	2	39,442,151	10,155,177	26%	
Utah	2	5,494,823	1,165,660	21%	●
Vermont	9	11,231	0	0%	
Virginia	1	25,205,367	9,649,281	38%	
Washington	5	5,656,092	158,334	3%	
West Virginia	1	25,493,261	21,486,688	84%	
Wisconsin	2	12,810,181	3,451,772	27%	●
Wyoming	1	1,508,501	638,900	42%	
U.S. Total	**1**	**771,580,707**	**381,740,601**	**49%**	

● State has electric sector mercury regulations that are **at least as** stringent as EPA's proposed utility air toxics rule.

● State has electric sector mercury regulation that are **less** stringent than EPA's proposed utility air toxics rule.

Sources: EPA's Toxic Release Inventory (2009 data), accessed June 2011; State environmental departments.

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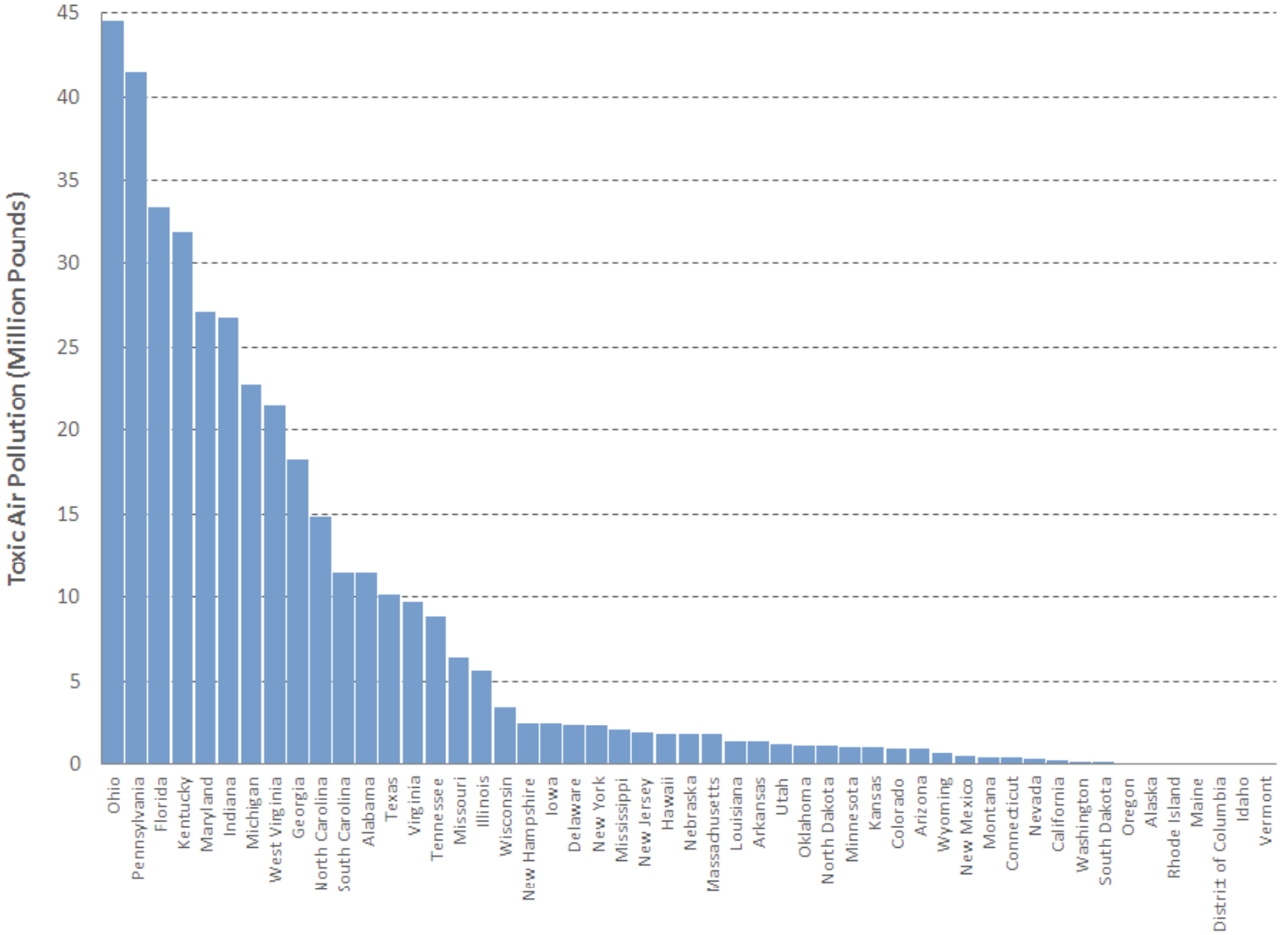
Appendix: Electric Sector Toxic Air Pollution by State



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Sources: EPA's Toxic Release Inventory (2009 data), accessed June 2011

Methodology

Obtaining TRI Data

This report relies on the updated 2009 TRI data, which was accessed using the TRI.NET application provided by EPA here: http://www.epa.gov/tri/tridotnet/index.html. The updated 2009 dataset ("TRI 2009: UP 2009") was downloaded in June 2011. Any subsequent revisions to the 2009 data are not reflected in this report. The following methodology describes how the TRI data were obtained and exactly what was considered in this report.

- State-Level Toxic Air Emissions:
    1. Using the TRI.NET Data Engine build a new query.
    2. Under "FILTERING Variables" select all chemicals, all industries, all states, and the 2009 data year.
    3. In "Releases" under "DATA Variables" select: "Point Source Air Emissions."
    4. Under "GROUPING Variables" select: Industry, State, and Year.
    5. Run query and export data to Excel.
- Plant-Level Toxic Air Emissions:
    1. Using the TRI.NET Data Engine build a new query.
    2. Under "FILTERING Variables" select: all chemicals, all states, and the 2009 data year.
    3. Under "FILTERING Variables" in the "Industry" folder select: "NAICS 2211 – Electric Utilities."
    4. Under "DATA Variables" in the "Releases" folder select: "Point Source Air Emissions."
    5. Under "GROUPING Variables" select: TRI ID, Chemical, Industry, Name, Address, City, State, and Year.

For all U.S. totals, only the 50 states and the District of Columbia were included.

Matching TRI Data to EIA-860

TRI facility identification numbers (TRI IDs) were matched with EIA plant codes for the top 10 emitters in each of the selected states using plant names and address information included in both the TRI and the EIA-860. Since TRI data are reported at the site-level, some TRI IDs reflect emissions from two or more power plants. When known, these instances are noted in this report.

Plant Ownership Information

Plant ownership is primarily derived from the EIA-860 database. Ownership was then attributed to the appropriate holding company. For plants included in this report, only entities with at least a 20 percent ownership interest in a particular plant are listed. Smaller ownership interested were grouped as "Others." Owners are listed in descending order by ownership percentage.

Pollution Control Information

Plants that have installed pollution controls since 2009 that might significantly reduce emissions of toxic pollution and plants that are currently constructing such equipment are recognized in this report. While an effort was made to investigate activities for all plants listed in this report, some meaningful actions may not be included. Furthermore, pollution controls or unit retirements may be planned at additional plants. These potential future actions are not indicated in this report due to uncertainty over when projects would be completed or units retired. The installation of the following types of pollution control equipment is recognized in this report when known: flue gas desulfurization, dry sorbent injection, activated carbon injection, and fabric filters.

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Methodology

Industry Classifications

Covered sources report the North American Industry Classification System (NAICS) codes that apply to them and are classified by their primary sector in the TRI database. For simplicity, the industry sector names used in EPA's Toxics Release Inventory were adjusted in accordance with the table below. For each state, industries beyond the top five emitting sectors were grouped together and categorized as "Other."

EPA Toxic Release Inventory NAICS Code & Industry Name	Revised Sector Name
311 Food/Beverages/Tobacco	Food & Beverages
313 Textiles	Textiles
315 Apparel	Apparel
316 Leather	Leather
321 Wood Products	Wood Products
322 Paper	Paper Products
323 Printing and Publishing	Printing & Publishing
324 Petroleum	Petroleum Products
325 Chemicals	Chemicals
326 Plastics and Rubber	Plastics & Rubber
327 Stone/Clay/Glass	Stone, Clay, & Glass
3273 Cement	Cement
331 Primary Metals	Primary Metals
332 Fabricated Metals	Fabricated Metals
333 Machinery	Machinery
334 Computers/Electronic Products	Computers & Electronics
335 Electrical Equipment	Electrical Equipment
336 Transportation Equipment	Transportation Equipment
337 Furniture	Furniture
339 Miscellaneous Manufacturing	Miscellaneous Manufacturing
ZZZ No TRI NAICS code	Other
2121 Coal Mining	Coal Mining
2122 Metal Mining	Metal Mining
2211 Electric Utilities	Electricity Generation
4246 Chemical Wholesalers	Chemical Wholesalers
4247 Petroleum Bulk Terminals	Petroleum Terminals
562 Hazardous Waste/Solvent Recovery	Hazardous Waste

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Sources

U.S. ENVIRONMENTAL PROTECTION AGENCY, TOXICS RELEASE INVENTORY (TRI):
Description & Use: Certain electric generating facilities, along with facilities from other industries, report to the TRI. Electric generating facilities that combust coal or oil are required to report releases of designated pollutants to the TRI if the quantity of each pollutant released meets or exceeds specific thresholds. Releases include point source air emissions. Generally, the reporting threshold for electric generating facilities is 25,000 pounds or more of an individual pollutant. However, the threshold for certain persistent, bioaccumulative, and toxic (PBT) chemicals, such as mercury and mercury compounds, is significantly lower. The reporting threshold for mercury and mercury compounds is 10 pounds. Reporting thresholds are applied to each pollutant individually. Facilities that combust only natural gas are exempt from the TRI reporting requirements. The TRI data are self-reported by covered sources, and EPA does not require specific methodologies for measuring or estimating releases. Therefore, methodologies vary from source to source. The TRI served as the source for all emissions data referenced in this report. While the TRI may not reflect total U.S. or sector-level emissions, it covers most large stationary sources of toxic air pollutants and provides useful information on emissions trends.
Citation: U.S. Environmental Protection Agency. 2011. Toxics Release Inventory (TRI), 2009 Inventory Updated Dataset – Point Source Air Emissions. URL: http://www.epa.gov/tri/tridata/index.html. (Accessed June 2011 through TRI.NET application: http://www.epa.gov/tri/tridotnet/index.html).

U.S. ENVIRONMENTAL PROTECTION AGENCY, NATIONAL ELECTRIC ENERGY DATA SYSTEM v.4.10 (NEEDS):
Description & Use: EPA uses NEEDS as the basis for its IPM modeling efforts to project the impact of proposed policy changes. NEEDS contains information on the operating and emissions characteristics of most generating units in the U.S. NEEDS served as the basis for information on recently installed pollution controls included in this report. This information was checked against independent sources to verify the validity of NEEDS.
Citation: U.S. Environmental Protection Agency. 2010. NEEDS v.4.10 database. URL: http://www.epa.gov/airmarkets/progsregs/epa-ipm/BaseCasev410.html. (Accessed June 2011).

U.S. ENERGY INFORMATION ADMINISTRATION, FORM-860 ANNUAL ELECTRIC GENERATOR REPORT (EIA-860):
Description & Use: The database includes generator-level data for electric generating facilities, including ownership information and site addresses. This database served as the primary source for the ownership information included in this report, although additional sources were used to confirm this information when necessary.
Citation: U.S. Energy Information Administration. 2010. Form EIA-860 Annual Electric Generator Report, 2009. URL: http://www.eia.gov/cneaf/electricity/page/eia860.html. Accessed June 2011.

VARIOUS SOURCES:
Description: A variety of additional sources were consulted to confirm the status of state mercury regulations and the installation of pollution control equipment at individual plants since the 2009 TRI data were collected. Additional sources were used to confirm ownership data in some instances. For a full list of additional sources, please contact NRDC.

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