



The Digital Administrator: Information Technologies for Improving Compliance

Confidence Through Compliance
in Emissions Trading Markets

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Washington, DC

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U.S. EPA



A Simple Equation...

$$\text{Compliance} = \text{Allowances} - \text{Emissions}$$

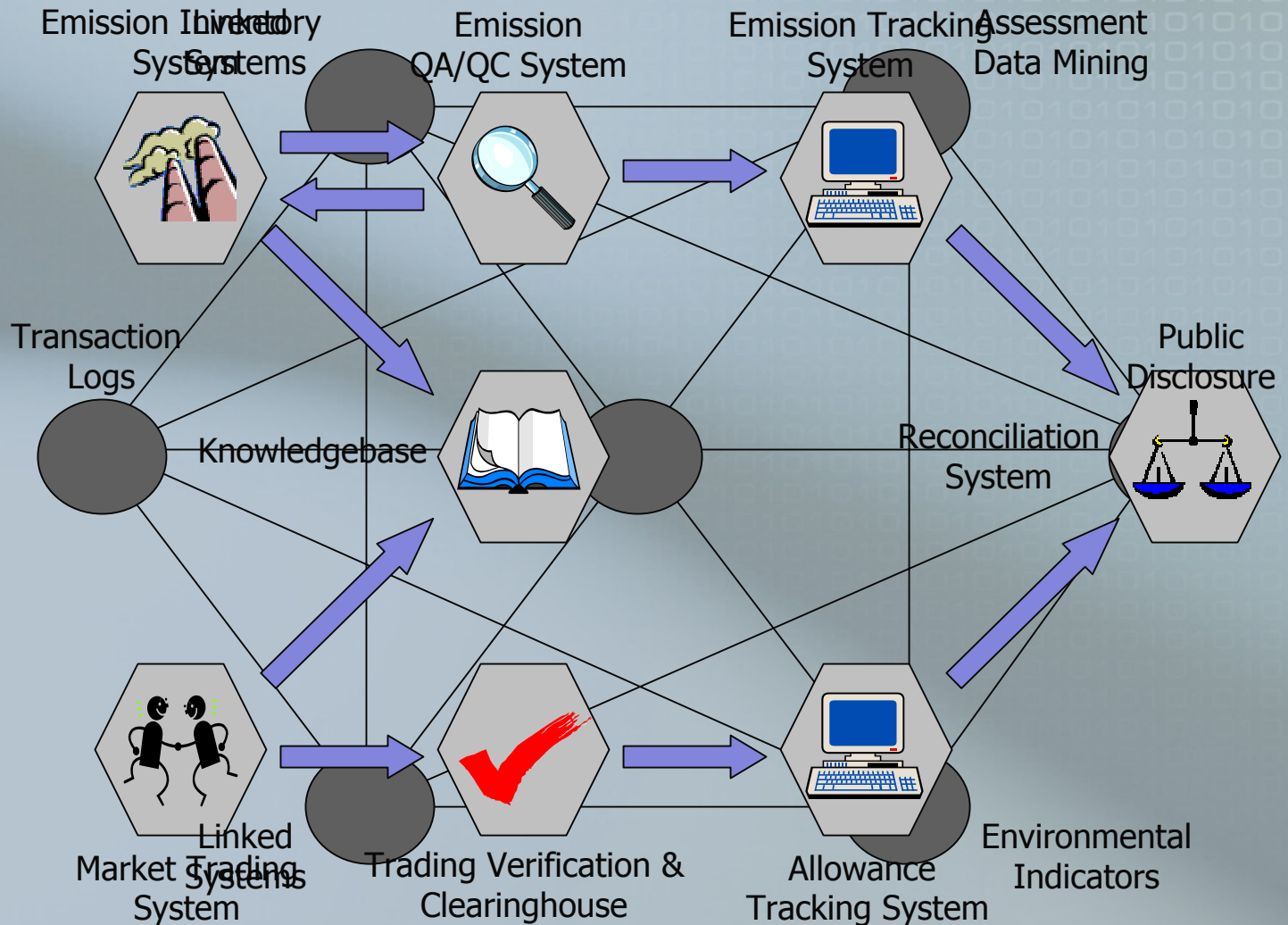


Data System Benefits

- Increased Accuracy
- Improved Speed
- Reduced Administrative Costs
- Improved Data Access/Reporting
- Enhanced Data Comparability/Analysis



Integrated Information Systems



Improving Emission Reporting & Verification

- Electronic Reporting
 - Standardized Data Requirements
 - Structure
 - Communication Protocols
- QA/QC Checks
 - Missing Data & Mathematical Checks
 - Methodology Checks
 - Statistical Analysis
- Data Set Integration & Data Mining



Improving Transparency

- Benefits
 - Facilitate Efficient Markets
 - Build Public Acceptance
 - Foster Credibility
- Requires Information, Not Data

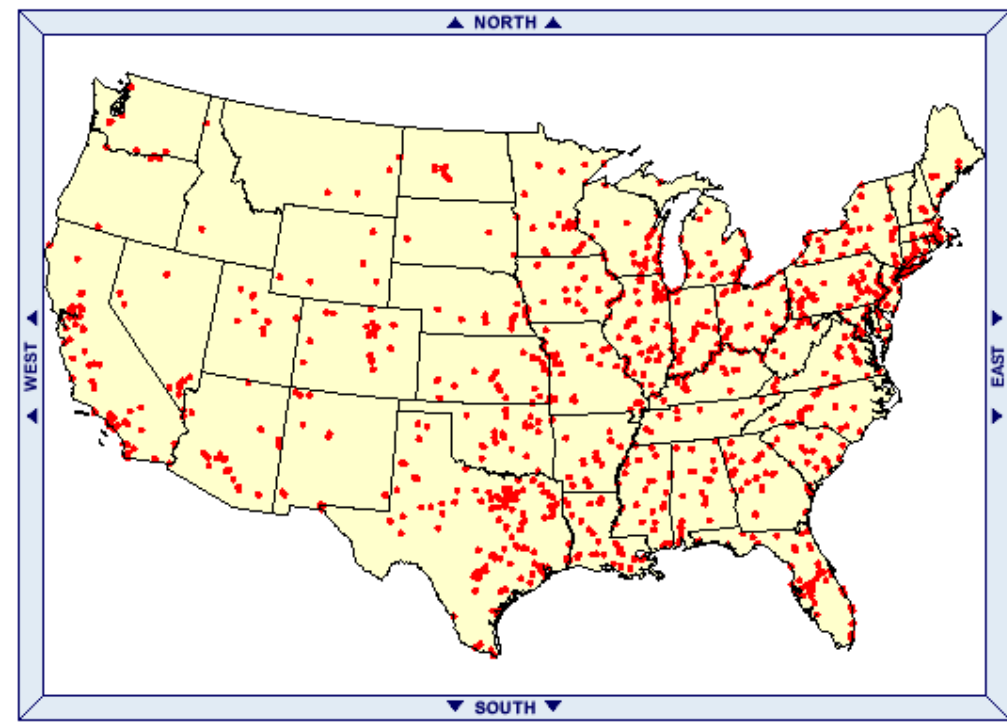




Where You Live: National Map

[CAMD Home](#) [D&M Home](#) [Help](#)

[Print Map](#) [Download Data](#) [Definitions](#)



Reset Map

[-] [Map Icon]

[+]

Select Year and Program

Operating Year
2004

Program
Acid Rain Program (ARP)

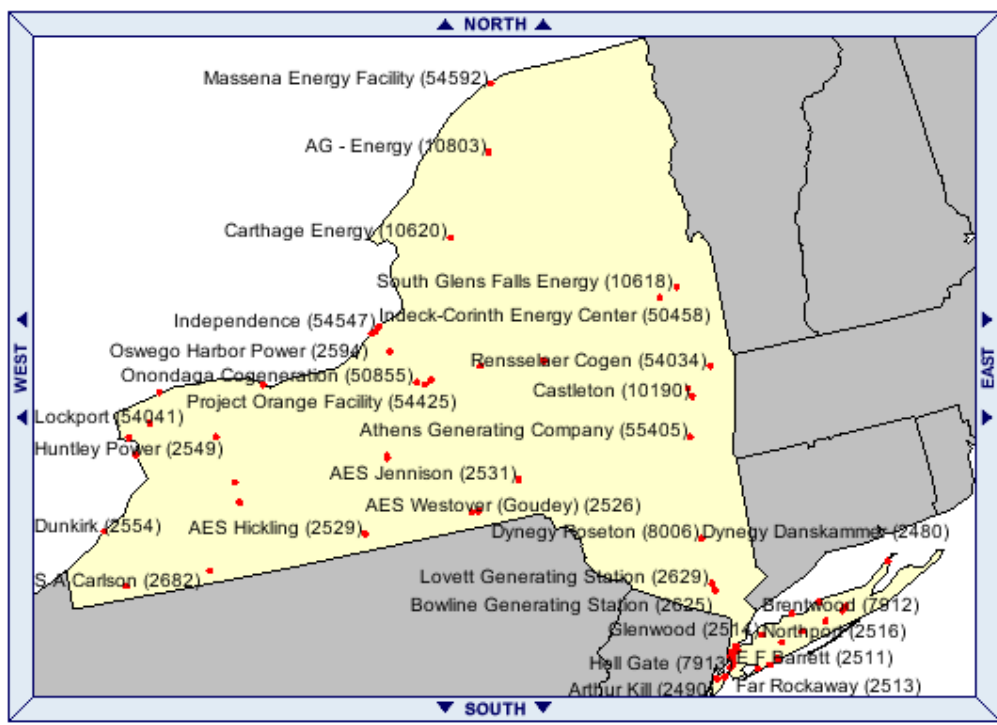
Select a year and a program or all programs to filter facilities visible on the map.

[Update National Map](#) [Clear](#)

National Data	
Operating Year	2004
Program Code	ARP
SO ₂ Tons	10,259,165.0
NO _x Tons	3,762,791.7
CO ₂ Tons	2,487,481,663.3
Heat Input (mmBtu)	26,357,319,996

Select State [Show State Map](#)

[National Map](#) [Print Map](#) [Download Data](#) [Definitions](#)



Reset Map

Search

Search

Select Year and Program

Operating Year
2004

Program
Acid Rain Program (ARP)

Select a year and a program or all programs to filter facilities visible on the map.

[Update State Map](#) [Clear](#)

Select Facility

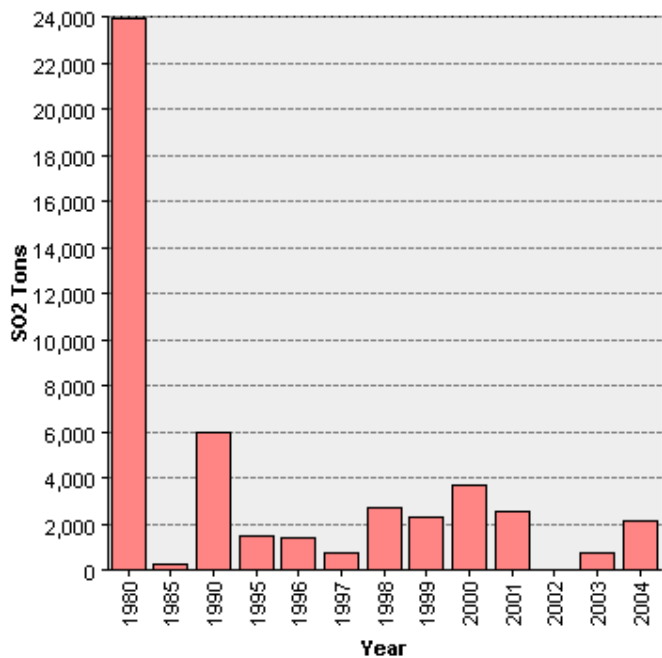
[Get Facility Summary](#)

State Data

Operating Year	2004
State	NY
Program Code	ARP
SO ₂ Tons	228,266.9
NO _x Tons	61,203.2
CO ₂ Tons	55,124,610.7
Heat Input (mmBtu)	690,132,251

Select State [Go to State](#)

Facility Name	Facility ID (ORISPL)	Operating Year	SO ₂ Tons	CO ₂ Tons	NO _x Tons	Heat Input (mmBtu)
Bethlehem Energy Center (Albany)	2539	2004	2,137.0	267,013.4	358.1	3,313,854
Bethlehem Energy Center (Albany)	2539	2003	744.8	102,366.0	130.5	1,326,477
Bethlehem Energy Center (Albany)	2539	2002	2.0	99,751.4	81.8	1,681,825
Bethlehem Energy Center (Albany)	2539	2001	2,548.9	336,271.8	453.5	4,282,503

Graph for Bethlehem Energy Center (Albany)[Unit Information](#)[Print Graph](#)[Download Graph](#)**Summary Data for Bethlehem Energy Center (Albany)****ORISPL:** 2539**County:** Albany, NY**Owned By:** PSEG Power New York, Inc.**Operated By:** PSEG Power New York, Inc.**Represented By:** Christine T Neely, Jeffrey L Horn, Joseph D Krejsa**Programs:** Acid Rain Program, NOx Budget Trading Program

Closing Comment...

Well-designed information systems can provide significant benefits and aid in compliance and enforcement, but confidence in the trading system will depend on:

- Quality of the emission data
- Credibility of the institutions
- Transparency of information

