

### 2003 Reported Reduction Activities – SF<sub>6</sub> Partnerships

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Program Web site: <u>www.epa.gov/electricpower-sf6</u>



#### **Partner Accomplishments**

Since Inception of Partnership in 1999,

- Average partnership emission rate has declined from 17 percent to 10 percent in 2003
- Total emissions reductions through 2003 = 317,500 lbs of SF<sub>6</sub> (3.4 MMTCO<sub>2</sub>Eq)
- Equivalent to preserving 28,200 acres of forest from deforestation
- Gas savings = \$2-3 million

#### **Partnership Update**

New Partners

Arizona Public Service Company (APS) MidAmerican Energy National Grid LG&E Energy

- SF<sub>6</sub> Equipment Field Study
- Partner Progress Reports

#### Partner Progress: Developing Corporate Benchmarks

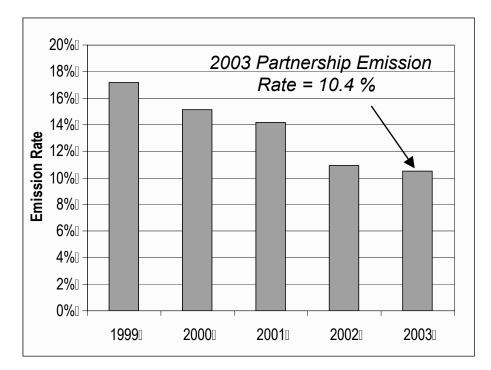
- Partners' voluntary record of emissions and reduction efforts allow EPA to develop useful corporate benchmarking tools on a Partner to Partner basis
- 2004 marks the first year EPA has developed Partner Progress Reports
- Partners that reported data for 2003 received a two to three page individualized report on the progress and accomplishments made to date as a Partner to the SF<sub>6</sub> Emission Reduction Partnership.

#### **Two Objectives**

- 1. To allow a Partner to compare their performance to that of their peers and the Partnership as a whole.
- 2. To allow a Partner to compare their progress to that of their established goal (or to their first reported emissions data).

# SF<sub>6</sub> Emission Rate: A Metric for Performance Comparison

- Emission rate = total emissions / total SF<sub>6</sub> nameplate capacity
- Normalizes SF<sub>6</sub> emissions relative to the total amount of operating electrical equipment containing SF<sub>6</sub> used by the utility.
- 2003 Partnership Emission Rate = 10.4 %



SF<sub>6</sub> Emission Reduction Partnership Emission Rate Trend, 1999 – 2003

#### Relative Comparison of 2003 Data from Selected Utility Partners

Partner	Nameplate Capacity (lbs.)	SF <sub>6</sub> Emissions (lbs.)	Emission Rate
Partner "A"	253,333	9,330	4%
Partner "B"	104,582	719	1%
Partner "C"	99,939	2,026	2%
Partner "D"	85,075	11,539	14%
Partner "E"	71,773	10,506	15%
Partner "F"	64,172	13,328	21%
Partner "G"	60,632	1,321	2%
Partner "H"	57,898	4,008	7%
Partner "I"	50,273	4,122	8%
Partner "J"	34,791	351	1%

#### Benchmarking Reports are a Tool for YOU!

- To share successes with Operating Personnel and other staff contributing to your success
- To be cognizant of other Partners' successes and to consider additional emission reduction activities to improve performance
- To re-evaluate and update your SF<sub>6</sub> emission reduction goals to reflect ongoing performance

- Allegheny Power
- AEP
- Athens Electric Dept.
- Austin Energy
- Bangor Hydro-Electric
- Big Rivers
- Bonneville Power
- CenterPoint Energy

- Cinergy Power
- City of Monroe
- Columbia River People's
- Commonwealth Edison
- Commonwealth Electric
- Connecticut Light & Power
- Consolidated Edison

- Crisp County Power Commission
- Duquesne Light
- Edison International
- El Paso Electric
- Eugene Water and Electric Board
- FirstEnergy
- Florida Power & Light

- Fort Pierce Utilities
- GPU Energy
- Grand Island Utilities
- Hastings Utilities
- Kings River Conservation
  District
- Lower Colorado River
- Maine Public Service
- Manitowoc Public Utilities

- Memphis Light, Gas & Water
- Menasha Electric & Water
- MidAmerican Energy
- Muscatine Power & Water
- Nashville Electric Service
- National Grid
- Nebraska Public Power
- New York Power Authority

- Northeast Utilities
- NIPSCO
- OG&E
- Oncor/TXU
- **PG**&E
- Paragould City Light & Water
- Douglas County (PUD #1)
- Pend Oreille County (PUD #1)

- Rochester Gas & Electric
- Salt River Project
- San Antonio City
- Silicon Valley Power
- South Carolina Electric & Gas
- Southern Company
- TVA

- Texas Municipal Power Agency
- Village of Prarie du Sac
- Wallingford Electric Division
- Wellton-Mohawk Irrigation & Drainage
- West Texas Utilities
- We Energries

## THANK YOU!

Keep working on your goals!