



# **Multi-Pollutant Proposals to Reduce Power Plant Emissions**



Metropolitan Washington Air Quality Committee  
December 15, 2004

# Outline

- Background
- Need for Multipollutant Controls
- Approaches
- Comparison of proposals
- Timeline for reductions
- State multipollutant strategies

# Background

- 2002 Several bills introduced in Congress to address multipollutants
- Clean Skies Initiative, Jeffords bill have been stalled in committee
- MWAQC supported Jeffords bill S.366 in 2002
- EPA plans to adopt regulation 12/04 to address multipollutants (CAIR)

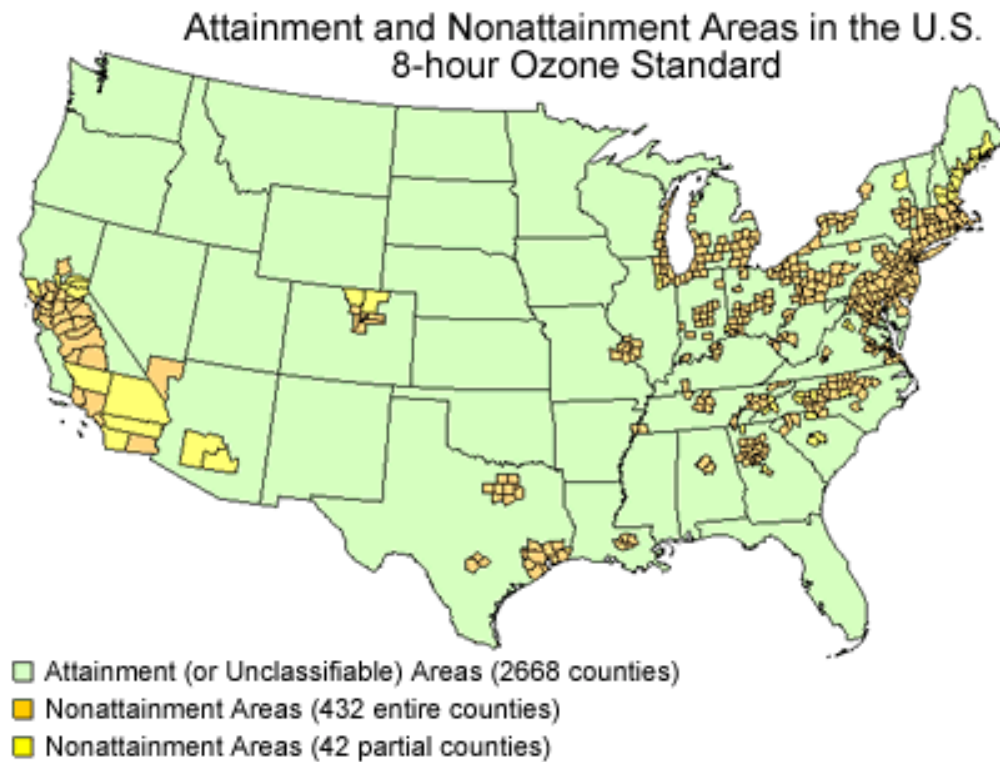
# Need for Multipollutant Controls



- Large portions of the eastern US designated non-attainment for 8-hour ozone and fine particulate standards
- For many regions, transport of NO<sub>x</sub> and sulfur dioxide (SO<sub>2</sub>) plays a large role in non-attainment
- States need assistance to further reduce transport, and passage of multipollutant legislation is uncertain

## 8-Hour Ozone Nonattainment Areas in the United States

**Regional solutions  
required to reach  
attainment.**



Source: U.S. EPA

# Multipollutant Initiatives

## National/Regional

- Clean Air Interstate Rule (CAIR)
- Clear Skies (CSI)
- Jeffords bill (S.366)

## Regional

- Ozone Transport Commission (OTC)
- States (NC, MD, VA)

# Clean Air Interstate Rule

2-step regulatory approach reduces NO<sub>x</sub> and SO<sub>2</sub> in 2010, again in 2015

States submit SIPs outlining compliance method within 18 months of final rule

Cap and trade implementation recommended but not required. States may issue permits.

Discourages states from seeking additional federal help with transport relief

# Ozone Transport Commission Proposal



Proposes NO<sub>x</sub> and SO<sub>2</sub> reductions believed to be consistent with attainment of upcoming 8-hour and PM 2.5 standards

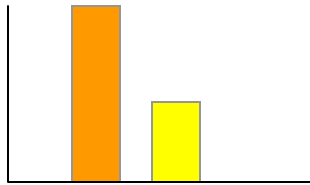
Reductions are larger and occur earlier than in other proposals

Supports cap and trade program

Encourages addition of large industrial boilers to program



# Major Differences



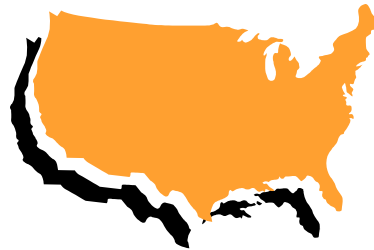
Size of  
Reductions



Timing of  
Reductions

CO<sub>2</sub>

4<sup>th</sup> Pollutant



Geographic scope

# Pollutants Addressed

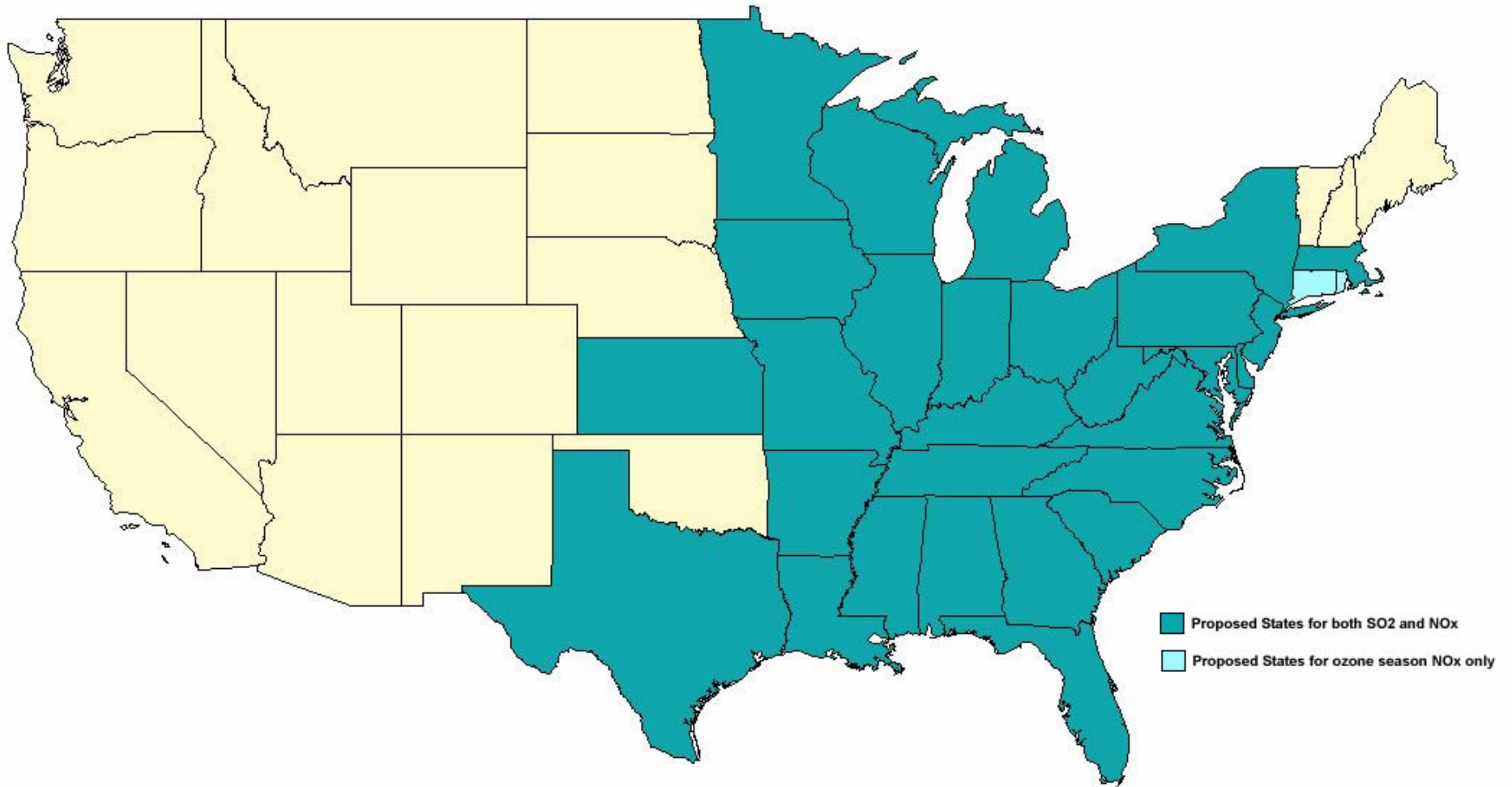
# Summary of Pollutants Addressed

	Controls			
	<u>NO<sub>x</sub></u>	<u>SO<sub>2</sub></u>	<u>Hg</u>	<u>CO<sub>2</sub></u>
CAIR*	Yes	Yes	No	No
Clear Skies	Yes	Yes	Yes	Study
Jeffords	Yes	Yes	Yes	Yes
OTC	Yes	Yes	Yes	No

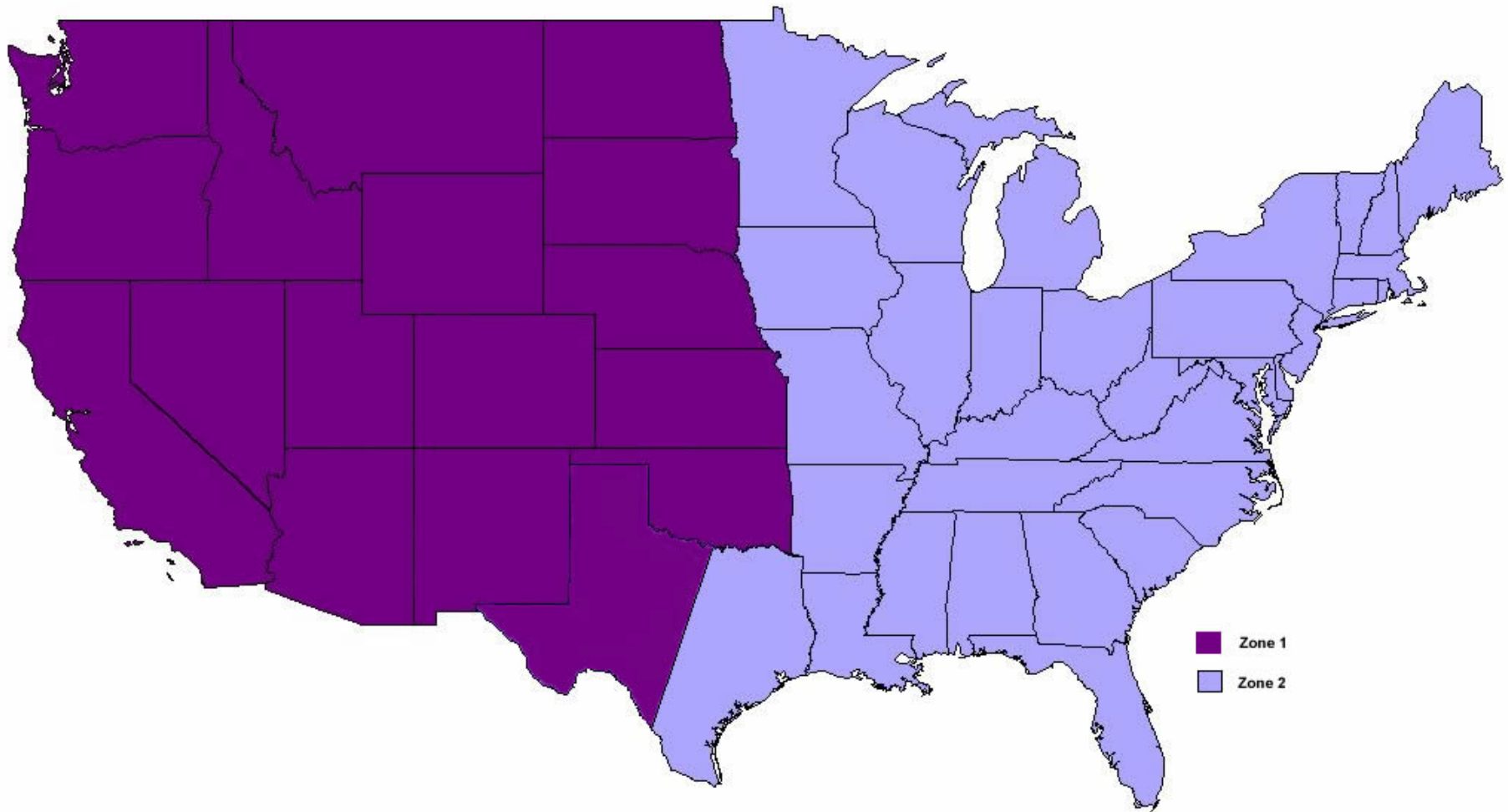
\* EPA MACT Rule addresses mercury.

# Geographic Scope

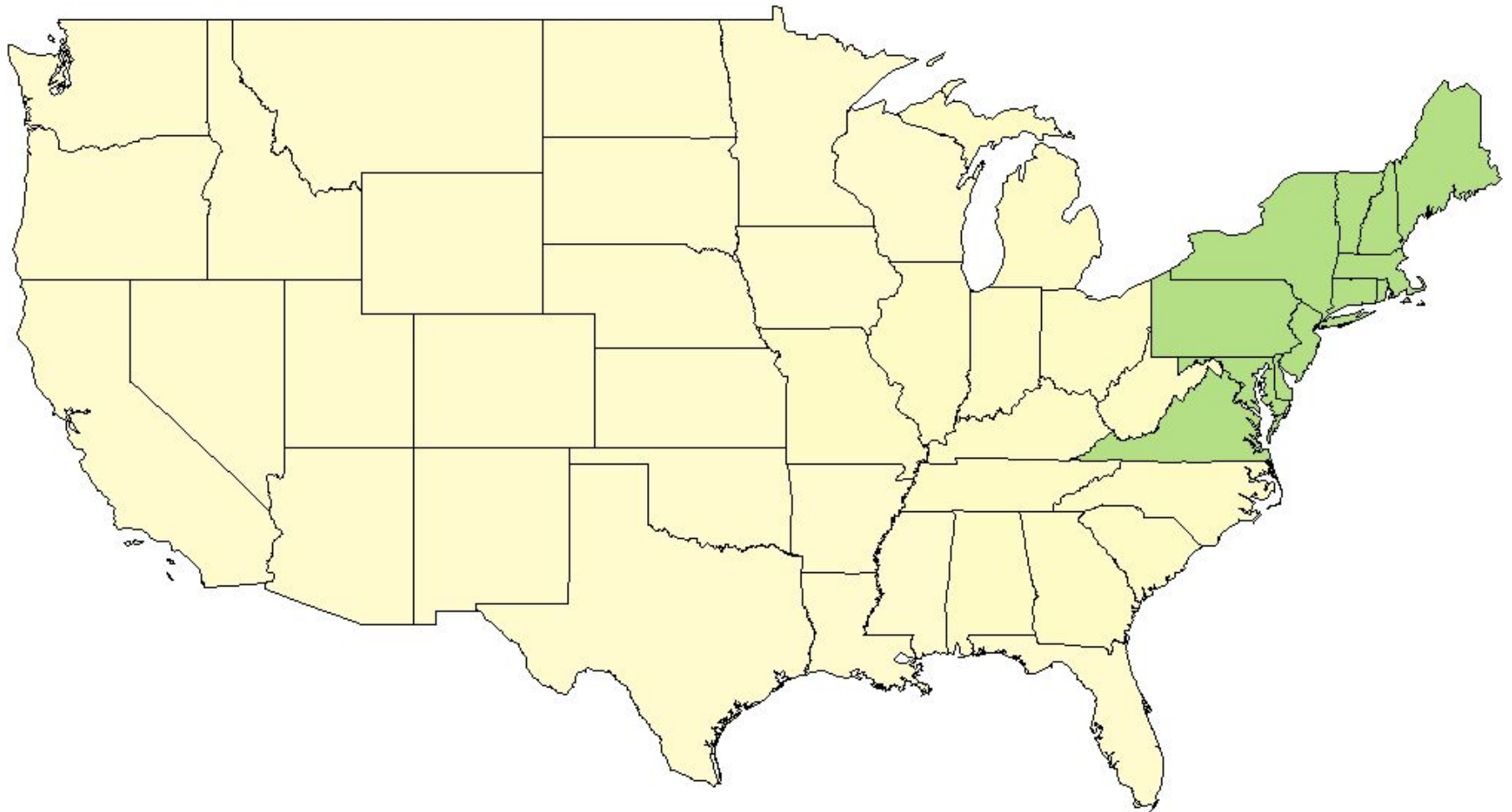
# Clean Air Interstate Rule: 28 states



# Clear Skies Initiative: 50 states, 2 zones



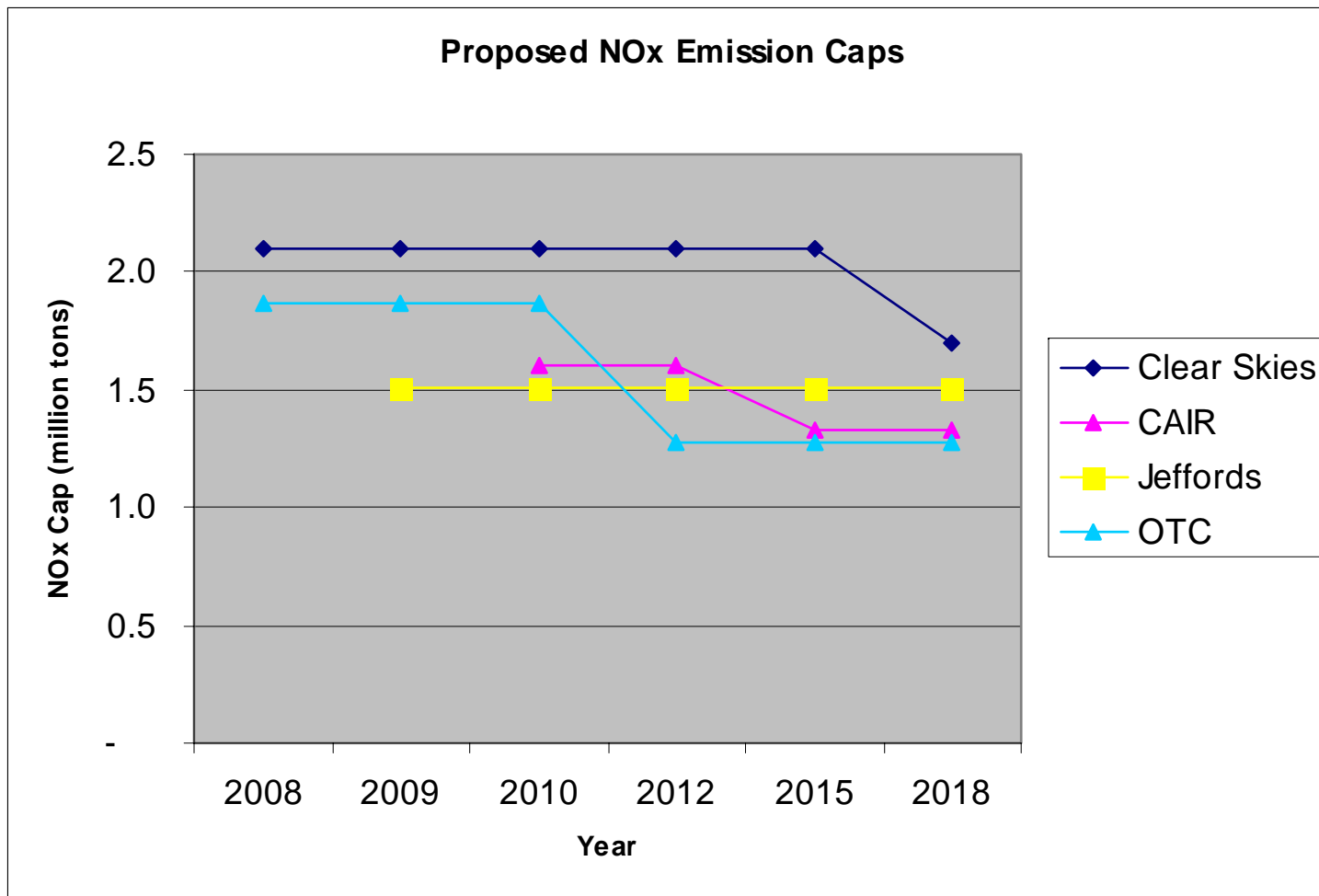
## Ozone Transport Commission Strategy: 13 States



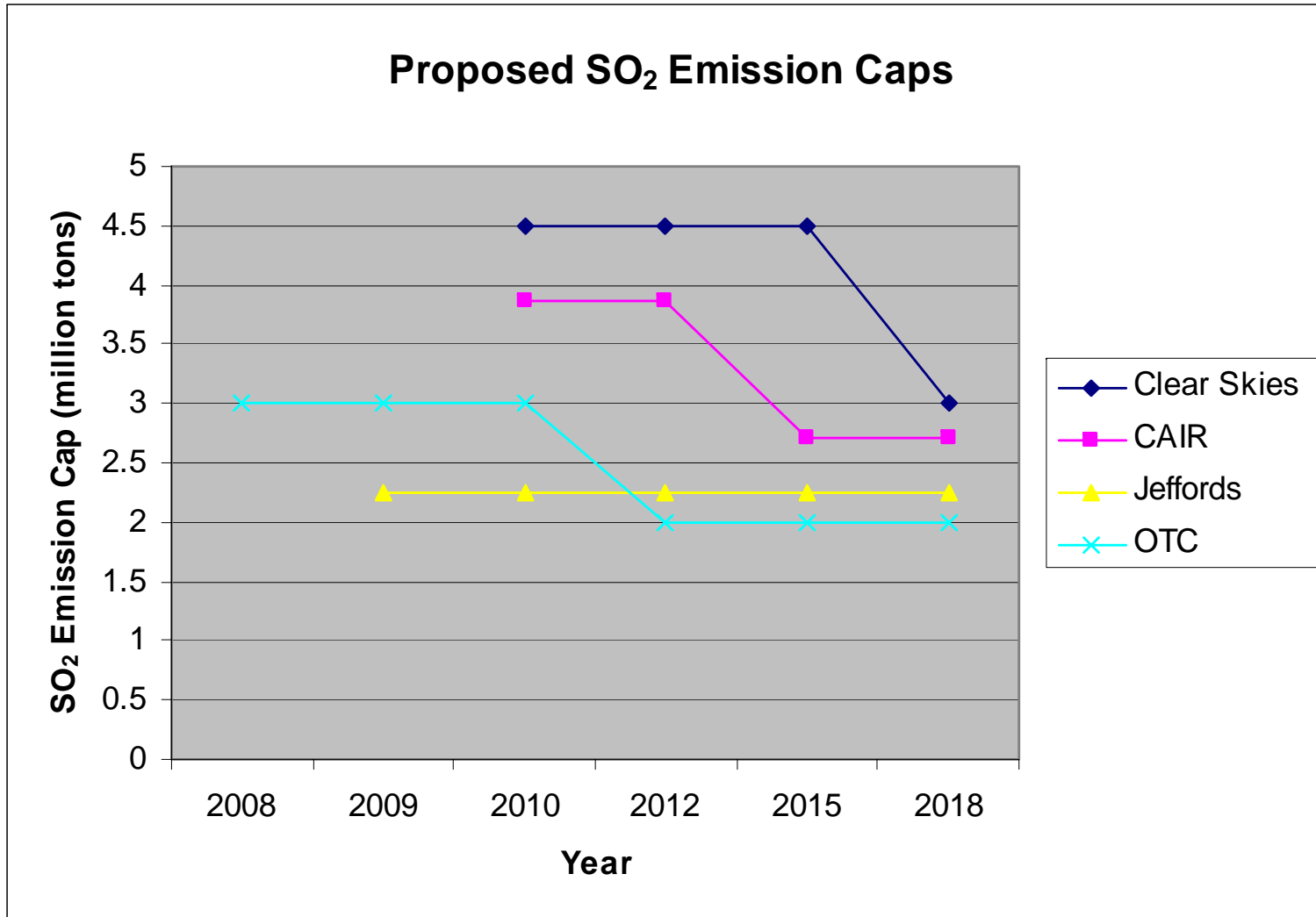
# Comparison of Benefits



# Summary of Benefits

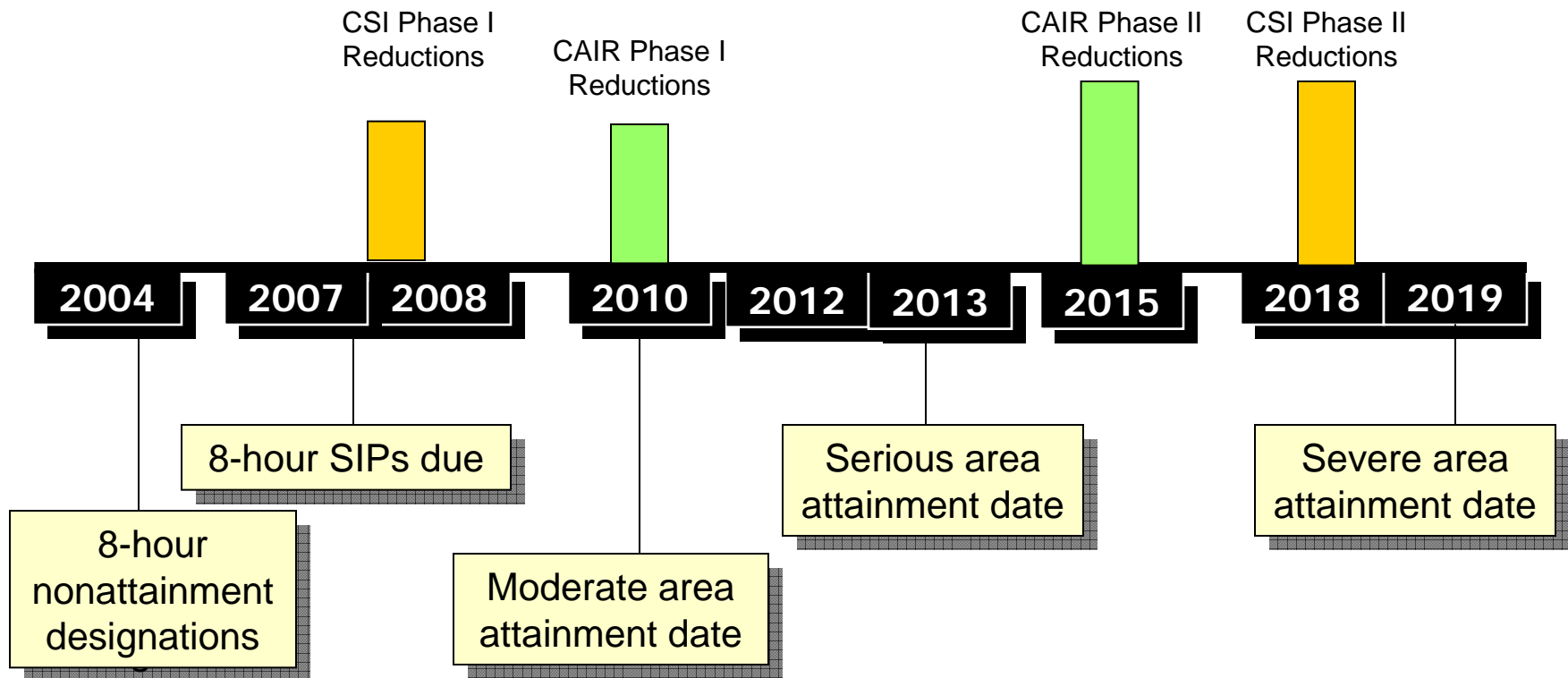


# Summary of Benefits



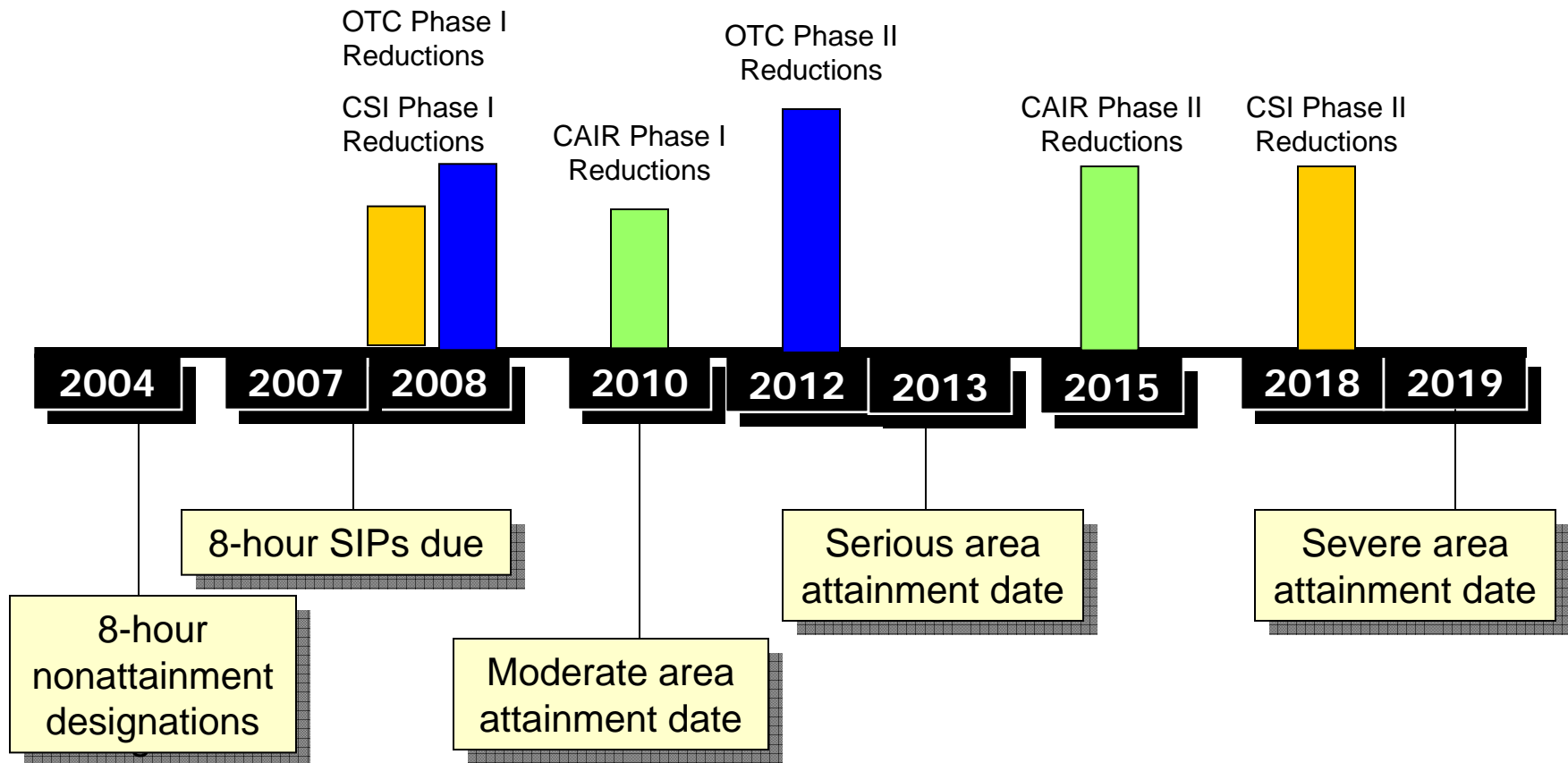
# Timeline for Reductions

# Reduction Timeline



CSI=Clear Skies Initiative  
CAIR=Clean Air Interstate Rule  
OTC=Ozone Transport Commission Proposal

# Reduction Timeline



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# State Legislation

- North Carolina “Clean Smokestacks” passed by legislature, June 2002
- Virginia “Clean Smokestacks” (proposed)
- Maryland Multipollutant legislation (proposed)

# State Multipollutant Legislation

	Controls			
	<u>NO<sub>x</sub></u>	<u>SO<sub>2</sub></u>	<u>Hg</u>	<u>CO<sub>2</sub></u>
North Carolina	Yes	Yes	No	No
Virginia*	Yes	Yes	Study	Study
Maryland*	Yes	Yes	Yes	Yes

\* To be filed.

# For more information

## Websites

- <http://www.epa.gov/clearskies/>
- <http://www.epa.gov/air/interstateairquality/index.html>
- <http://www.epa.gov/mercury/actions.htm>