

# **Western Perspective on Coal and Emissions from Electrical Utilities**

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July 22, 2004

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# Coal and the Western Economy

- Wyoming leads the nation in coal production
  - Almost as much coal as is produced in West Virginia, Kentucky, and Pennsylvania combined
- Colorado, Utah and Montana are all important coal production states

# Coal and the Western Economy

- Coal in the West is low sulfur
- Transportation limits production
- The vast amount of coal produced is used for electrical generation

# Coal Consumption 2002

## Electric Power Sector

- Mountain States – 112.7 short tons
- Pacific states – 10.5 tons
- West North Central States – 143 short tons
- West South Central – 145.3 short tons
- East North Central – 217.8 short tons
- East South Central – 105.8 short tons
- South Atlantic – 167.5 short tons
- Middle Atlantic – 65.4 short tons
- New England – 7.7 short tons

# 1996/2002 Annual Emissions from EGUs in the WRAP States

- VOC – 6,455/7,352
- NO<sub>x</sub> – 611,513/603,951
- CO – 55,253/59,844
- SO<sub>2</sub> – 748,270/585,042
- PM<sub>10</sub> – 47,264/39,980
- PM<sub>2.5</sub> – 28,279/23,025
- NH<sub>3</sub> – 665/665

# WRAP Backstop Trading Program

- Set of recommended regional emission reduction measures of SO<sub>2</sub> to achieve 40% reduction by 2018
- Backstop emissions trading program to ensure milestones are achieved
- SO<sub>2</sub> emission reduction milestones for each year between 2003 and 2018, with most reductions between 2013 and 2018

# Backstop Trading Program

- 20,000 ton set aside for tribal sources
- Annual process to determine whether voluntary emissions reduction measures meet the milestones
- Review in 2013 to ensure reduction targets are being met

# Clean and Diversified Energy Initiative

- Increase the importance of clean fuels while recognizing the significance of traditional fuels
- 30,000 MW of clean energy by 2015
- 20% increase in energy efficiency by 2020
- Concentrating solar power?
- Two year planning process

# Issues of Interest

- Clean coal technology
- Availability and price of natural gas
- LNG facilities
- Power generation facilities on the border