



Power Sector Response to EPA Regulations

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Kathleen L. Barrón
Vice President, Federal Regulatory Affairs and Policy

What Does the Power Sector Need to Do?

✓ Generation owners

- Begin now assessing impact of regulations and working with regulators (if necessary) to resolve rate issues associated with retrofits or new capacity
- For plants that will no longer be economic, inform transmission owners & planners so studies can be conducted about necessary transmission reinforcements

✓ Transmission owners & transmission planners

- Plan for at-risk generation; conduct studies based on accurate information from generators

✓ Regulators

- Adhere to predictable regulatory schedule
- Provide flexibility when appropriate
- Use tools available to minimize impacts

Toxics Rule Preamble: “EPA expects that sources will begin promptly, based upon this proposed rule, to evaluate, select, and plan to implement source-specific compliance options.”

Existing Pollution Control Systems on U.S. Coal Fleet

Over 60% of the nation's coal capacity has been retrofit with scrubber controls; more than 70% of units greater than 400 MW have scrubbers.



Air Pollution Control Technologies

- ✓ Proposed standards may require additional control technologies at coal-fired EGUs
 - Mercury – activated carbon injection (ACI) most likely (12-18 mos.)
 - Acid gases – dry sorbent injection (DSI) (9-12 mos.) or dry scrubbers (24-36 mos.)
 - Non-mercury metals – most plants have PM removal through electrostatic precipitators or fabric filters (both 12-24 mos.), but may require upgrades
- ✓ Plants will determine technologies on a holistic basis, taking into account other EPA proposed rules
 - Transport rule requirements may require installation of wet scrubbers for SO₂ removal at bituminous plants, which would also remove HCl (24-44 mos.)
 - Selective catalytic reduction (SCR) for NO_x removal would also capture PM
 - Tighter ozone standard expected in July 2011 and tighter proposed PM_{2.5} standard expected later in 2011; both will lead to reduced emissions budgets in revised Transport Rule

Prior Rules Have Been Assimilated Well

Between 2008 and 2010, the electric industry installed 60 GW of scrubbers and 20 GW of advanced NOx controls.



Industry Has a Proven Track Record of Adding New Generating Capacity When and Where Needed

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