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National Academy of Sciences: Air Quality Management in the United States

MWAQC Technical Advisory Committee March 12, 2004

Overview

- Successes and Failures of the Air Quality Management Process
- Vision for Change
- Recommended First Steps







• No provision for multi-state or airshed-wide SIPs



- Heavy duty trucks and nonroad vehicles are largely unregulated.
- Technology-specific fuel regulations make adjustments difficult (MTBE)
- \bullet Growth in VMT and vehicle trips offsets emission reductions

Stationary/Area Controls



National regulations have achieved significant emission reductions from existing stationary sources

BUT

- Output-based standards discourage efficiency, enable emission growth
- Many older facilities have minimal controls due to grandfathering
- Area sources hard to quantify, therefore hard to control
- \bullet Single-pollutant cap and trade programs increase control costs and decrease efficiency

Monitoring Practices



Emission monitoring has documented reductions in pollutant concentrations and has helped confirm the health benefits of emission reductions

BUT

- Monitors are concentrated in urban sites
- No programs to monitor hazardous air pollutants
- Data accessibility is limited
- No comprehensive, quantitative program to track emissions and trends
- Monitors cannot reliably report ecosystem effects



Specific Recommendations

Strengthen capacity to assess risk and track progress

Expanded EPA role for multi-state emission controls

Transform SIP into an air quality management plan

Integrate programs for criteria pollutants and HAPs

Enhance protection of ecosystem and public welfare



Expand Multi-State Control Measures Expand EPA's role in: • controlling high-emitting sectors • regulating transport of criteria and hazardous air pollutants • Reduce emissions from existing facilities/vehicles • Seek input from state and local stakeholders on sectors of the economy needing additional controls • Advocate technology-neutral emission standards and market-based regulatory approaches

Transform the SIP Process

• Focus on assessing effectiveness, not predicting it



Implement collaborative review process:
 assess actual vs. modeled emissions vs. air quality trends

Accountability for monitor readings, not plan implementation

• Harmonize transportation and air quality planning horizons

- Make SIP an integrated multipollutant plan
- Encourage development of innovative pollution control methods

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Hardbound copies should be available in the next month.