



State and Local Capacity Building

State Energy & Environmental Goals: Opportunities for Synergies

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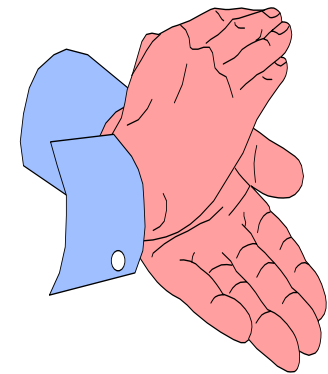
Overview

- **Key Points**
 - ◆ **Great synergies already happening**
 - ◆ **Integration more crucial than ever**
 - ◆ **Multiple benefits can help make case**
 - ◆ **EPA offers tools & technical assistance**
- **Examples on What (More) Energy Officials Can Do**
 - ◆ **How we can work together**
- **Ideas for Next Steps**



States are on the Right Track

- **Governors and state policymakers are seeing energy, environment & economics connections**
- **Linking E&E is becoming more common**
 - ◆ **NASEO committee**
 - ◆ **state and regional efforts**
 - ◆ **national, regional discussions**



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Major Energy Challenges Ahead

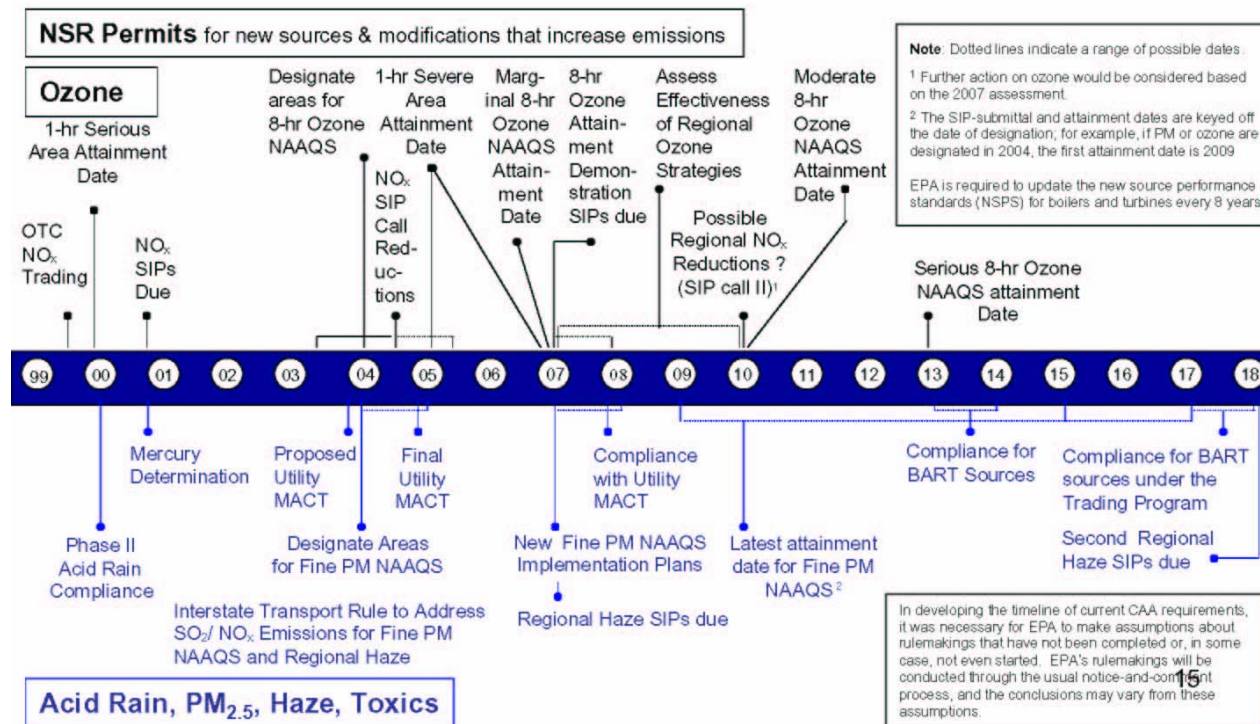
- **New Demand**
- **Security**
- **Reliability**
- **Infrastructure**

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Air Quality Concerns also Mounting

NOTE: Dates are illustrative

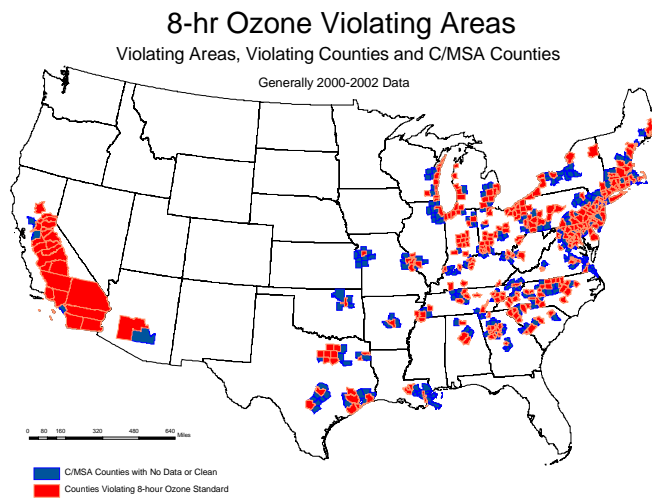


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Air Quality Concerns Affect Many States



Intended Designations (not final)



May 27, 2003

Areas Protected by EPA's Regional Haze Rule





Integration Can Help E&E -- Address other Concerns Too

- **Multiple** benefits from strategies that integrate energy and environment:
 - ◆ **Protecting the environment**
 - ◆ **Improving energy supplies, reliability, security**
- but also...
 - ◆ **Reducing costs**
 - ◆ **Protecting public health**
 - ◆ **Furthering economic development**



Examples of Multiple Benefits

- Texas LoanSTAR program
 - ◆ Saved \$123 million in energy costs (1991-2003)
 - ◆ Reduced total emissions: 4,700 tons NOX, 3,000 tons SO₂, 1.3 million tons CO₂
- Wind Power in Minnesota (107 MW project)
 - ◆ \$611,00 in property taxes =13% of county total
 - ◆ 31 long-term local jobs
 - ◆ reduced emissions from traditional generation
- Philadelphia Cool Roofs
 - ◆ top floor temps reduced 5°F on very hot days
 - ◆ protects health of low-income and elderly
 - ◆ lowers energy costs and related emissions for houses with air conditioning



Many Integration Opportunities for State Energy Officials

- **Technical Assistance**
 - ◆ Provide guidance on M&V, quantification

- **Participation in Projects/Dialogue/Process**
 - ◆ Be at the table, alongside environmental officials in formulating strategies

- **Project Funding**
 - ◆ Work into State Energy Projects, PBFs

- **Project Implementation, Evaluation/Analysis**
 - ◆ Put programs in place
 - ◆ Document results
 - ◆ Consider replicability



EE/RE in Supplemental Environmental Projects (SEPs)

- **Enforcement actions can advance E&E integration**
- **Colorado -- 5 Years of Wind Energy Purchases**
 - ◆ **Promotes economic development, price stability**
 - ☞ Supports over 2.4 million kWh/year renewable energy
 - ☞ Avoids 5.1 tons SO₂, 4.4 tons NO_x, 2,527 tons CO₂ per year
- **Texas -- Low-emission Vehicles for Local Gov't**
 - ◆ **Helps with AQ, public health, job creation**
 - ☞ Low emission vehicles for local counties, schools
 - ☞ Investments in alt-fueled buses for local cities
- **Montana -- Revolving Loan Fund for Clean Energy**
 - ◆ **Helps lower reliance on nonrenewable energy**
 - ☞ Promotes clean energy industry in MT
 - ☞ Requires recipients to report annual energy produced
- **EPA SEP Toolkit for States Coming Soon**¹⁰



EE/RE in State Implementation Plans (SIPs)

- **Air quality plans can advance energy goals through EE/RE measures**
 - ◆ EE/RE set-asides -- NOx SIP Call
 - ◆ Western States Regional Haze SIPs
 - ◆ Texas Ozone SIPs
 - ◆ Washington, DC/MD/VA Ozone SIP

- **EPA Tools to Help**
 - ◆ Guidance for establishing set-aside
 - ◆ Report on state programs, guidance
 - ◆ M&V document
 - ◆ Voluntary stationary measures policy

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Other Resources

- **Many EPA Offices Working on Integration**
 - ◆ Throughout OAR
 - ◆ Regions
 - ◆ OAQPS
- **Quantification Tools**
 - ◆ **E-GRID and PowerProfiler**
 - ☞ www.epa.gov/cleanenergy
 - ◆ **EnergyStar**
 - ☞ www.energystar.gov
 - ◆ **Mitigation Impact Screening Tool (MIST)**
 - ☞ Coming soon
 - ◆ **Clean Air & Climate Protection Software**



Conclusion

- **Numerous ways to advance energy and environmental goals in concert**
 - ◆ **Some tough issues to address, but multiple benefits can help advance efforts**

- **Multiple opportunities to work together**
 - ◆ **Developing project ideas**
 - ◆ **Analyzing impacts**
 - ◆ **Making linkages to AQ resources, players**
 - ◆ **Promoting success stories**

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For More Information

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