Overview of the New York Energy $mart Environmental Monitoring, Evaluation and Protection Program

Janet Joseph, NYSERDA
Presentation Outline

- History of EMEP
- Goals & strategies
- Target areas
- Future directions
Purpose: Support policy-relevant research to enhance understanding of energy-related environmental issues

Initiated in 1998 - funded at $2.7 million/yr through 2006
Program Focus

Target pollutants:
- NOx, SOx, mercury, primary and secondary particulates, ozone

Research Areas:
- Air Quality and related health research
- Ecosystems Response to Deposition of Sulfur, Nitrogen and Mercury
- Cross-cutting research
Program Strategies

- Address critical NYS and regional problems
- Provide a forum for exchange of information
- Support outreach and science-policy communication efforts
- Build capabilities in NY institutions
- Leverage limited dollars
- Strong technical review/active advisory group
EMEP Overview

Current EMEP Portfolio
$19 million NYSERDA/$39 million total

- Outreach/Science-Policy Communication: $1.9M
- Cross-Cutting Research: $0.8M
- Ecosystem Response: $8.1M
- Air Quality and Health: $8.1M
- (Health Research) ($0.7M)

- 34 active research projects
- 6 projects complete/ 5 more complete in next quarter
EMEP Field Stations and Research Sites

EMEP Acid Deposition Field Sites
EMEP Mercury Field Sites
EMEP Fine Particulate Field Stations
EMEP Fine Particulate Research Labs
NADP Network
DEC Acid Deposition Network
DEC PM 2.5 Monitoring Locations
Future Directions

- Outreach and science communication
  - Web-page, fact sheets, primers, data availability, technical reports, “translation” pieces, integrated assessments

- Next solicitation in Dec/Jan
  - PM synthesis
  - PM health effects
  - Other ...

- Long-term planning
EMEP Overview

Conference Highlights

■ Tuesday
  ■ Policy framework
  ■ Session A: Air Quality and Related Health Effects - key science/ policy questions associated w/ PM
  ■ Session B: Ecosystem Response to Deposition of S, N, Hg
  ■ Reception

■ Wednesday
  ■ Session C: Control Technology
  ■ Session D: Cross-cutting science and policy issues on Nitrogen
  ■ Improving the scientific basis for decision making

■ Poster Sessions!!
EMEP Overview

- **NYSERDA EMEP Staff:** Janet Joseph, Mark Watson, Ellen Burkhard, Barry Liebowitz

- **Bard [Outreach/Conference Planning]:** Joanne Fox, Zywia Wojnar

- **EMEP Program Advisory Group**
  - James deWaal Malefyt, NYS Department of Public Service
  - Daniel Luttinger/Lloyd Wilson, NYS Department of Health
  - Gopal Sistla/Steven Sanford, NYS Department of Environmental Conservation
  - Richard Haeuber/Jim Vickery, USEPA
  - ST Rao, NOAA
  - Rashid Shaikh, NY Academy of Sciences
  - Sandra Meier, Environmental Energy Alliance of New York
  - Stacey Davis, Center for Clean Air Policy
  - Bernard Melewski, Adirondack Council
  - Ellen Baum, Clean Air Task
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EMEP Science Advisors
- Dr. Praveen Amar, NESCAUM
- Dr. Stuart Findlay, Institute of Ecosystem Studies
- Dr. William F. Fitzgerald, University of Connecticut
- John S. Irwin, U.S. EPA
- Dr. Daniel Jacob, Harvard University
- Dr. Patrick Kinney, Columbia University School of Public Health
- Dr. Scott Ollinger, University of New Hampshire
- Dr. George Hidy, Principal, Aerochem Associates