

NYSERDA Environmental Programs

Presentation to NYISO Environmental Advisory Council

Joe Visalli

Program Director, R&D

New York State Energy Research & Development Authority

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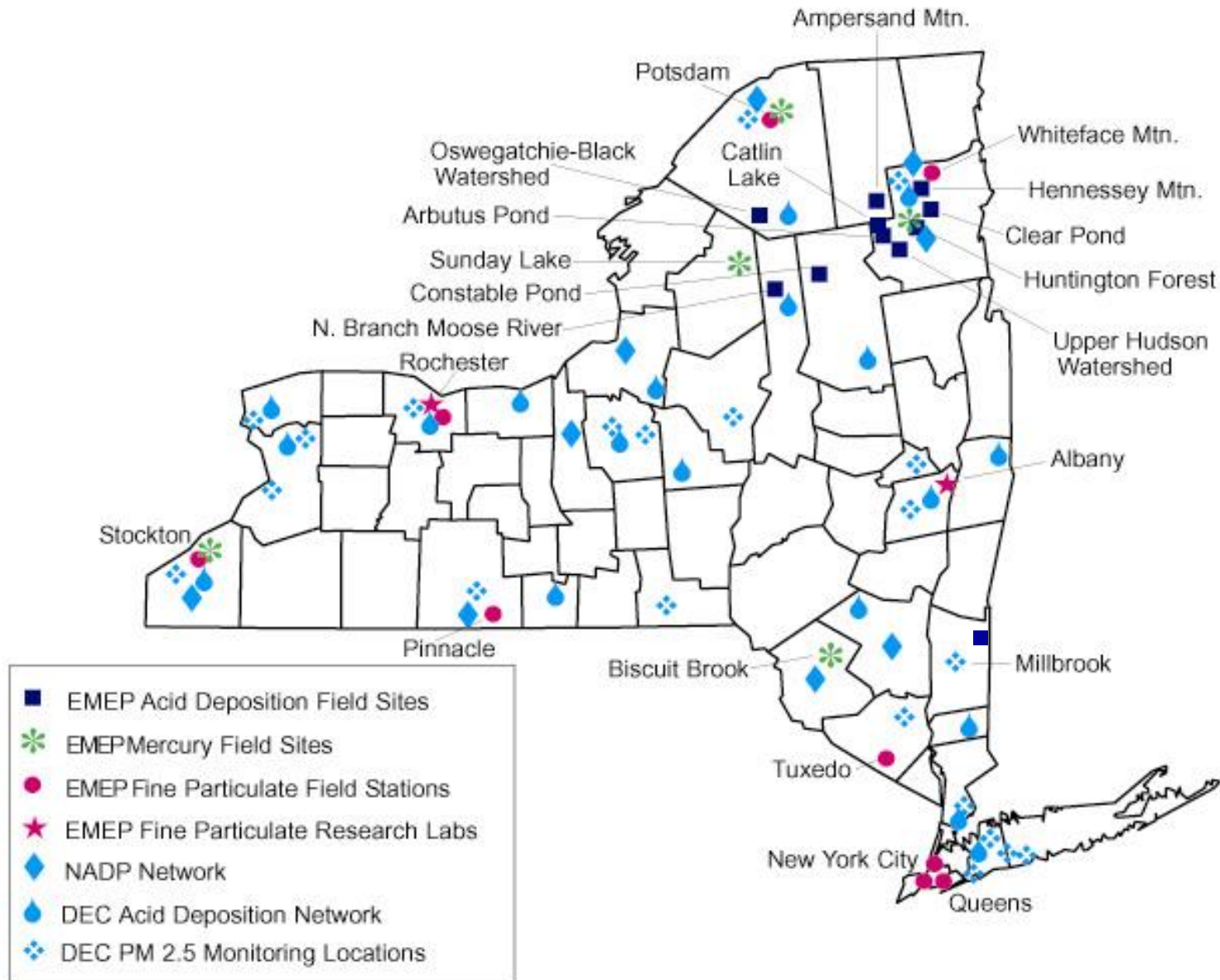
Environmental Monitoring and Evaluation Program

- Focus on electricity generation-related impacts and issues
- Decision-making based on sound science
- \$2.7 million/year budget
- Policy Advisory Group – *ISO Environmental Council Role?*
- Science Advisory Group
- Scientific research areas: acid rain, ozone, mercury and fine particulates
- Over 30 projects in portfolio

Environmental Monitoring and Evaluation Program Objectives

- Provide the scientific foundation for PM_{2.5} SIP
- Study O₃ precursors and transboundary issues
- Provide the data/baseline to evaluate effectiveness of emerging utility Hg controls
- Continue long-term monitoring of water quality in Adirondacks
- Develop new instrumentation in NY to meet State air quality and emission goals
- Aggressive science policy communication & tech transfer

EMEP Field Stations and Research Sites



Environmental Impacts of Wind Power



- Major Issues
 - Avian - birds and bats and “biological significance”
 - Aesthetics
 - SEQRA lead agency
- Current Activities
 - RESOLVE scoping study
 - NYS Planning Federation study
 - Discussions with NYSDEC - data requirements

Distributed Generation

- Major Issues
 - Lower emissions but closer to receptors?
 - Overall efficiency improvements tied to emission limits
- Current Activities
 - Individual project emission testing
 - ETV/USEPA
 - Input to DEC rulemaking
 - Modeling

Environmental Impacts of Kinetic Hydroturbines



- Major Issues
 - Fish kills and “biological significance”
- Current Activities
 - Discussions with NYSDEC - data requirements
 - Data collection at Roosevelt Island Tidal Project

Liquified Natural Gas and Energy Storage

- Potential Applications
 - Stranded domestic wells
 - Grid support - rural and load pockets
 - Use of off-peak electricity and gas
- Major Issues
 - Facility siting requirements
- Current Activities
 - Draft regulations to NYSDEC (ECL 23-1701)
 - Legislation to amend existing law
 - Demonstration projects to obtain information

Other Environmental/Energy Policy Areas

- Renewable Portfolio Standard
- Regional Greenhouse Gas Initiative
- Urban Heat Island Mitigation