

# New England Generation Information System

Nancy L. Seidman  
Division Director  
Massachusetts Department of  
Environmental Protection

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# GIS benefits Agencies

- Enables efficient simultaneous demonstration of compliance with
  - ◆ DTE Information Disclosure
  - ◆ DOER Renewable Portfolio Standard
  - ◆ DEP GPS (if implemented)
  - ◆ Equivalent attribute laws of all New England states

# Compliance Determination

- DEP receives emissions data, but not electrical output
- ISO receives electrical output, but not emissions data
- GIS marries ISO electrical output to facility emissions data,
- GIS enables compliance demonstration in terms of pounds of pollutant/MWh

# GIS Working Group Process

- Allows input from: NEPOOL participants, ISO, APX, and environmental agencies and PUCs from all New England states: no single party with all the answers
- Technical details built on previous APX efforts in US
- Policy issues not previously dealt with in such detail, or across so many agencies and jurisdictions

# Pollutants Currently Tracked in GIS

- CO<sub>2</sub>
- CO
- Hg
- NO<sub>x</sub>
- PM
- PM10
- SO<sub>2</sub>
- VOCs

# Emissions Data Hierarchy

- CEMS
- Emissions data reported to state or local agency (typically annually or triennially)
- Stack testing data
- Emission factors

# Regulatory Agencies Provide GIS Support

- Supply adjacent control area (NY, New Brunswick, Quebec) average emissions to assign to system imports
- Supply default worst-case emissions to be assigned to non-reporting units
- Approve methodologies for multi-fueled units that wish to be assigned single fuel certificates (“Approved Emissions Protocol” in the GIS Operating Rules)

# Additional Emissions Detail

- Cogen units required to report emissions associated with electricity generation, not steam
- Non-reporting units assigned a default worst-case emissions/MWh by fuel
- Non-reporting Multi-fueled unit assigned emissions of fuel with highest CO<sub>2</sub>



# Next Steps

- Work with NY ISO & PJM to provide consistent system across RGGI region
- Update GIS operating rules
- Provide consistent review of QA'd emissions data
- Review systems beyond borders of NE ISO to update or establish imported power attributes