

# Part 222 – NY's DG Rule

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# Part 222 – Format

- Subpart 222-1: definitions, general provisions/prohibitions
- Subpart 222-2: Existing DG Sources
- Subpart 222-3: New DG Sources
- Subpart 222-4: Severability Clause

# Regulatory Approach

- “Three Baskets”
  - 1. Emergency Generators
  - 2. Demand Response Sources
  - 3. Economic Dispatch Sources

# Subpart 222-1

## General Provisions

- Definitions of terms specific to Part 222
  - New: economic dispatch source, simple cycle and combined cycle combustion turbines
  - Revised: turbines (now “combustion turbines”), distributed generation source

# Subpart 222-1

- Routine maintenance prohibition for emergency and DR sources (5/1 – 10/15)
- Record keeping provisions

# Subpart 222-2

## Existing DG Sources

- What's new?
  - NOx limits for simple cycle and combined cycle turbines
  - Effective dates for emission limits:
    - May 1, 2009 (non-biogas-fired sources)
    - January 1, 2010 (biogas-fired sources)

# Subpart 222-2

- Demand Response Sources
  - NYC Capacity Caps:
    - May 1, 2009: 271.9 MW
    - May 1, 2011: 150.0 MW
    - May 1, 2014: 50.0 MW
- DR sponsors (not defined in rule):  
NYISO, LIPA, NYPA, Con Edison

# Subpart 222-2

- Demand Response Sources
  - Upstate Capacity Caps:
    - May 1, 2009: 111.4 MW
    - May 1, 2011: 100.0 MW
    - May 1, 2014: 50.0 MW
- DR sponsor (not defined in rule): NYISO



# Subpart 222-2

- Demand Response Sources
  - Emission Limits (effective 5/1/09):
    - NOx: 9.0 g/bhp-h
    - PM: 0.10 lb/mmBtu or 85% control
  - 30 hours per year (plus 500 hours per year emergency use)
  - Electric Grid Reliability Emergency Provision

# Subpart 222-2

- **NO<sub>x</sub> Limits – Economic Dispatch Sources**
  - **Combined cycle turbines**
    - Gas: 25 ppmv @ 15% O<sub>2</sub>
    - Oil: 42 ppmv @ 15% O<sub>2</sub>
  - **Simple cycle turbines**
    - Gas: 50 ppmv @ 15% O<sub>2</sub>
    - Oil: 100 ppmv @ 15% O<sub>2</sub>

# Subpart 222-2

- $\text{NO}_x$  Limits – Economic Dispatch Sources
  - Engines – Natural Gas
    - Rich burn: 2.0 g/bhp-h
    - Lean burn: 3.0 g/bhp-h
  - Engines – Oil
    - Compression Ignition: 7.5 g/bhp-h

# Subpart 222-2

- PM: 0.10 lb/mmBtu or 85% control
  - Applies only to oil-fired sources
- Emissions Testing: must be completed prior to effective date of emission limits
- Annual tune-up

# Subpart 222-3

## New DG Sources

- What's new?
  - Format Change
  - NO<sub>x</sub> limit for economic dispatch sources
  - No PM limits (NSPS rules govern)
  - Biogas-fired sources exempt (NSPS governs)

# Subpart 222-3

- **New Demand Response Sources**
  - Not subject to capacity caps
  - 60 hours per year (plus 500 hours per year emergency use)
  - Electric Grid Reliability Emergency Provision
  - Emission Limits (NO<sub>x</sub>, PM, etc.)
    - CI Engines: 40 CFR 60.4204
    - **SI Engines: 40 CFR 60.4231**
    - Turbines: 40 CFR 60.4320

# Subpart 222-3

- Economic Dispatch Sources
  - Applies to sources rated 67 horsepower and greater
  - **NO<sub>x</sub>: 0.30 g/bhp-h**
  - CO: 2.20 g/bhp-h

# Subpart 222-3

- Emissions Testing
  - Within 120 days after commencing operation
  - Manufacturer's certification
  - CARB certification
  - Multiple Units
  
- Additional Testing: 5 years or 15,000 hours  
– whichever is later



# Questions?

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