

# NYC Municipal CO<sub>2</sub> Reduction Strategy

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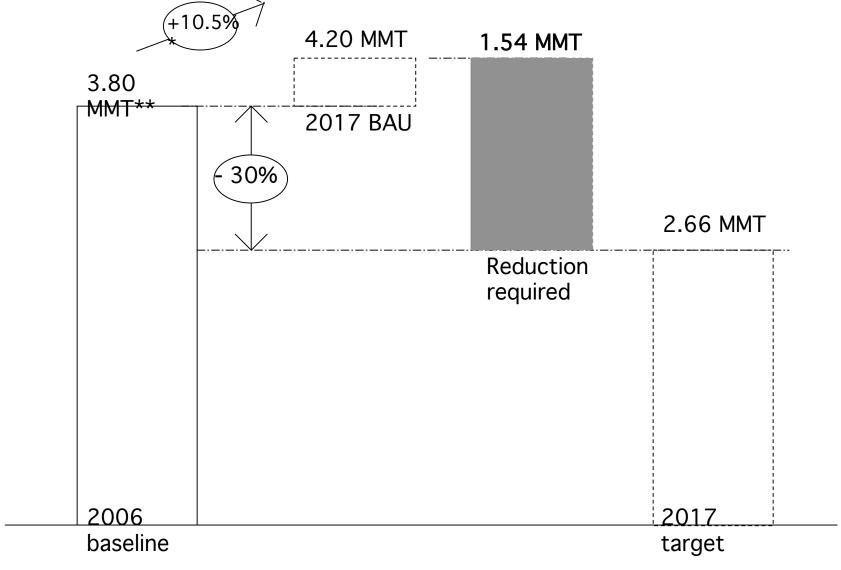
June 9, 2008



- Introduction
- Executive Order 109
  - √ Short-term action plan
  - ✓ Long-term action plan
- Greenhouse gas emission reduction potential
- Upcoming

# Executive Order 109 calls for absolute reduction of 30% by 2017 -- approximately 1.54 MMTons.





<sup>\*</sup> Estimated increase at 1% per year (average for NYC) for 10 years = 10.5% increase; may be higher because of new DEP facilities coming on line.

## Executive Order 109 Short-Term Action Plan



#### Release of action plan

December 5, 2007

#### Allocation of resources

- 10% of energy budget = \$80 million
- Creation of Energy Efficiency Steering Committee
- 132 projects
  - Projected cost of \$67 million
  - Projected GHG reduction of 34,000 tons annually
- Pilot programs and studies
  - Projected cost of \$8 million
  - Balance (\$5 million) for contingency

## Executive Order 109 Short-Term Action Plan



### 132 Projects

- •Interior lighting and lighting controls
- HVAC system and chilled water systems upgrades
- Cogeneration at Rikers Island
- Street and highway lighting

### Pilot Projects

- Baseline energy audits
- Round 2 of fleet study
- LEED EB
- Hybrid vehicles and vehicle pilot projects



#### Systemic Studies

- Operations and maintenance study
- Metering/monitoring and energy management systems
- Energy database development with benchmarking

Other Studies

Assessment of potential for DG

#### Executive Order 109 Long-Term Action Plan



#### Release of action plan

### Comprehensive tenyear plan

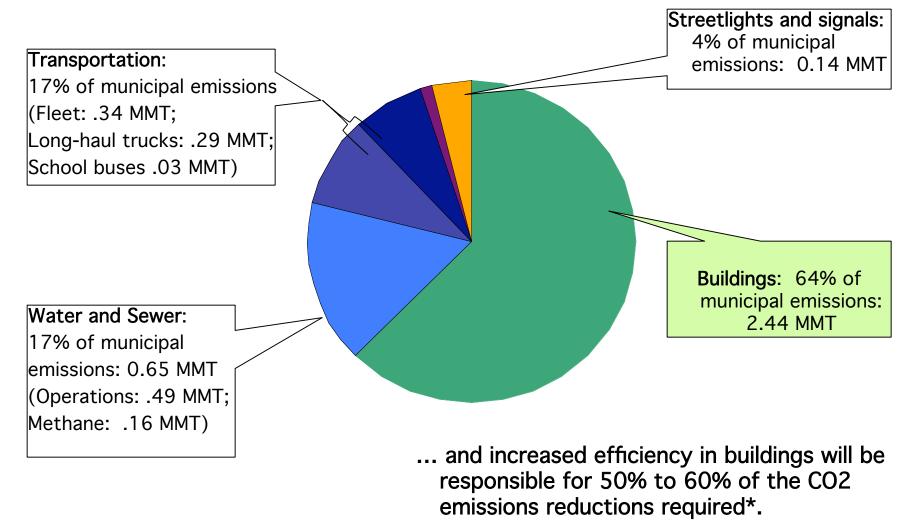
- To be released June 30, 3008
- Criteria for energy and methane reduction measures
- Criteria for building energy audits, retrofits, retrocommissioning
- Measurement and verification protocols
- Proposals for pilot projects
- Accountability rules
- Organizational needs

# Integration of results of planning efforts

- Database to track building energy use
- Operations and maintenance study
- Energy monitoring and peak load management opportunities
- Vehicle upgrade/emissions reduction program

# Energy used in <u>buildings</u> accounts for 64% of municipal CO<sub>2</sub> emissions ...





<sup>\* 4%</sup> to 5% more if efficiency upgrades to DEP facilities are included

#### Upcoming



- Long-term action plan release late June
- Greenhouse gas inventory update September
- Sustainability and energy indicators launch September

### Thank You



• Questions?