



Mayoral Challenge to Hospitals

CleanMed 2010
Tate Rider, NYCEDC



Agenda

- Overview of NYC Energy Issues
- Background and Purpose of Mayor's Hospital Challenge
- Examples of Federal and State Partnership
- Lessons Learned from the First Year

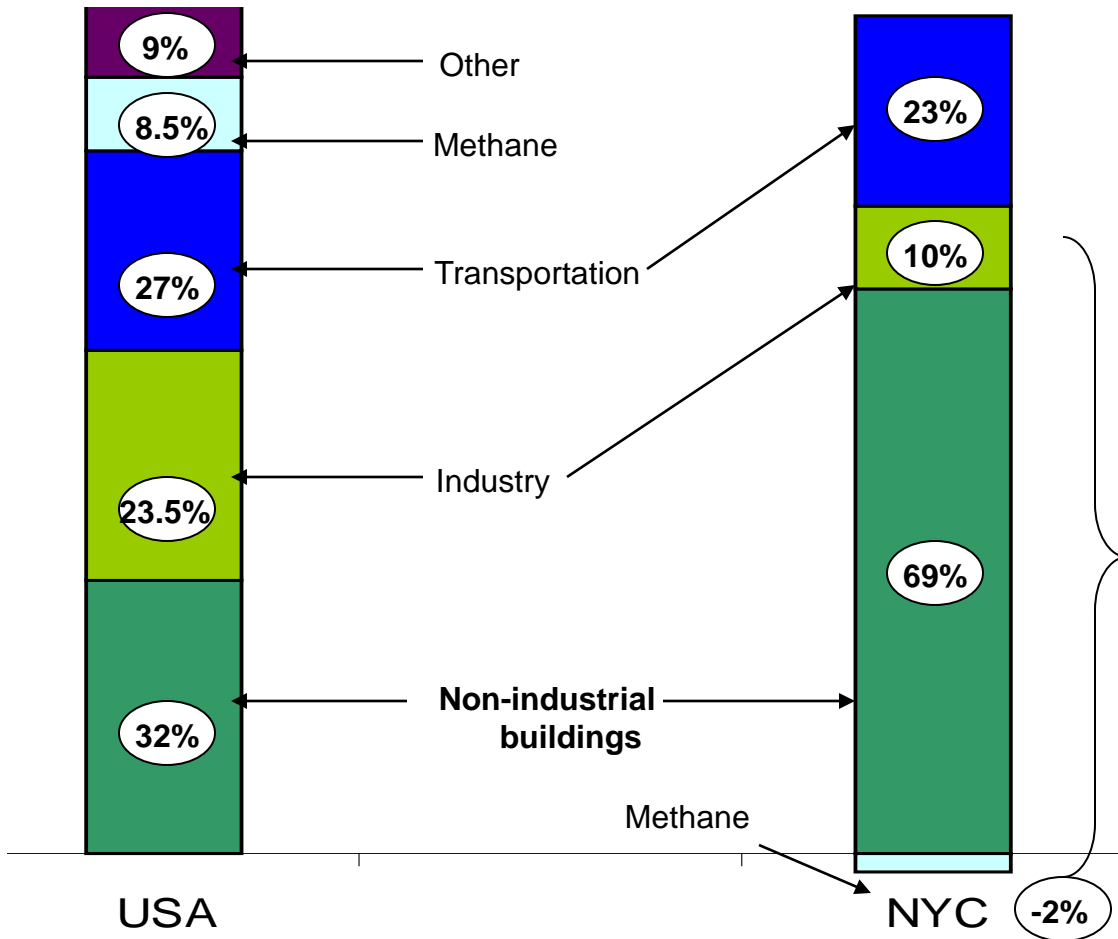
On Earth Day 2007, Mayor Bloomberg released *PlaNYC*, a comprehensive sustainability plan to create a greener, more sustainable city

PlaNYC is a roadmap to achieve 10 goals:

- 1 Create enough housing for our growing population
- 2 Ensure all New Yorkers have parks within a 10-minute walk
- 3 Clean up all contaminated land in New York City
- 4 Develop water network backup systems
- 5 Open 90% of our waterways and protect natural areas
- 6 Improve travel times by adding transit capacity for millions
- 7 Achieve “State Of Good Repair” on our transportation system
- 8 Provide cleaner, more reliable energy to all New Yorkers
- 9 Achieve the cleanest air of any big city in America
- 10 Reduce global warming emissions by 30%



New York's CO₂ emissions differ from the rest of the country. Buildings dominate



Almost 80% of NYC's emissions come from buildings, so our reduction strategy will have to concentrate on the building sector ... in particular the existing buildings.

By 2030, **over 85%** of our building emissions will still come from the **buildings we already have**.

The Mayoral Challenges are aimed at some of NYC's key sectors and most famous institutions

Sector	Status
<ul style="list-style-type: none"> Universities 	Under way for 3 years; 17 participating universities
<ul style="list-style-type: none"> Hospitals 	Under way for 1 year; 13 participating hospital systems
<ul style="list-style-type: none"> Broadway 	Broader sustainability challenge; 25 theaters have installed more efficient lighting in their marquees

Under way

<ul style="list-style-type: none"> Religious institutions 	Under consideration
<ul style="list-style-type: none"> Hospitality 	

Anticipated

The Mayor's Hospital Challenge is a collaborative, voluntary effort to improve NYC's long-term sustainability

- The Challenge is a critical part of a citywide effort to reduce greenhouse gas emissions by **30% by 2030**—a cornerstone of Mayor Bloomberg's PlaNYC
- New York's **13 largest hospitals** have accepted the Mayor's Challenge, committing to reducing greenhouse gas emissions by 30% in ten years
- Together, this effort is expected to reduce New York City emissions by **285,000 metric tons** annually after 10 years

The 13 largest NYC hospital systems have signed on

Hospital	Signed On
Contium Health Partners	✓
Health and Hospitals Corporation	✓
Lenox Hill Hospital	✓
Lutheran Medical Center	✓
Maimonides Medical Center	✓
Memorial Sloan - Kettering Cancer Center	✓
Montefiore Medical Center	✓
Mount Sinai Medical Center	✓
New York Presbyterian Hospital	✓
North Shore - Long Island Jewish Health System	✓
NYU Langone Medical Center	✓
New York Hospital Medical Center of Queens	✓
Saint Vincent's Catholic Medical Centers	✓

Kicked off Hospital Challenge one year ago

- Kickoff press conference/meeting May 14, 2009 at Bellevue Hospital
- Year One Deliverables
 - Establish a Greenhouse Gas Inventory
 - Develop an Energy Plan



The New York Times

May 14, 2009, 5:06 PM

Hospitals Vow to Curb Carbon Emissions

By A. G. SULZBERGER

Hospitals use a lot of power. The lights in emergency rooms burn around the clock. Outlets in the laboratories are taxed by computers, refrigerators and high-tech medical equipment. The air must be kept fresh and frosty to prevent the spread of germs, leaving air-conditioning and ventilation units on permanent overdrive.

Two first-year deliverables: Measure and plan

- Greenhouse Gas Inventory

- Partners will submit base year greenhouse gas inventories
- City provides technical assistance in gathering energy data and using emissions calculator



- Energy Action Plan

- Partners will submit Energy Action Plans outlining efficiency measures to achieve 30% target
- Action Plan should include estimated paybacks and projected emissions reductions

Working group meetings cover a wide range of important sustainability issues

- Greenhouse gas inventories
- Long-term action plans for greenhouse gas reduction
- Financing strategies
- Laboratory and data center efficiency
- Hospital staff participation and involvement
- Expansion plans and new buildings
- Vehicle fleets
- Distributed generation, including renewables, and district energy
- Operations and maintenance
- Carbon offsets and renewable energy credits



Hospital Challenge participants have access to a wide-range of resources

- The City's partners in the Mayoral Challenge:
 1. U.S. Department of Energy
 - EnergySmart Hospitals (healthcare-specific technical expertise)
 - Full-day energy management training session
 - "Advanced Energy Design Guide"
 2. NYSERDA
 - Funding opportunities (shared cost of audits, rebates for installation of energy-saving equipment)
 - Technical expertise in energy efficiency for healthcare sector

- Other organizations and resources (guest presenters, etc.):
 - EPA "EnergyStar for Healthcare" program and guidelines
 - Greater New York Hospital Association
 - U.S. Green Building Council: "LEED for Healthcare" program
 - Clinton Climate Initiative
 - ESCOs
 - General Electric
 - Willdan Energy Solutions

Example 1: DOE Hospital Energy Management Training Session

- Full-day session held on November 19, 2009
- Attended by 35 energy and engineering managers from NYC and suburban hospitals
- Topics included “Making the Business Case for Energy Efficiency,” “Quick Wins,” “Development of an Energy Plan,” and much more
- 88% of post-survey respondents found the training session “Excellent” or “Very Good”
- Hospitals are working on developing energy management programs from the training



Example 2: NYSERDA — Focus on Healthcare



- Targets hospitals and nursing homes in New York State
- NYSERDA has helped over 200 hospitals with >\$25 million in technical assistance and incentives
- Concentrates on Master Plans, Energy Studies, Financing and Change Management
- Example 1: Co-generation at NY Presbyterian
- Example 2: New green construction at NYU Langone
- More information: <http://www.nyserda.org/HealthCare/default.asp>
or (866) 774-8818

What have we learned over the past year?

- DOE partnership crucial to building technical expertise
- NYSERDA program brings projects to reality
- Case studies by energy managers are very important
- Financing is a major barrier — with no easy solution
- GHG inventory is helpful for tracking progress, but it's not an end in itself
- Access to corporate resources/partnerships important
- Buy-in from finance and executives at hospitals essential
- Commitment from Mayor's Office and alignment with City's environmental goals critical

Thank you

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