

**New York City Case Study: Disclosure and Certification** 

**GBPN Webinar #3** 

The Role of Labelling and

**Certification Schemes in** 

**Renovation Policy** 

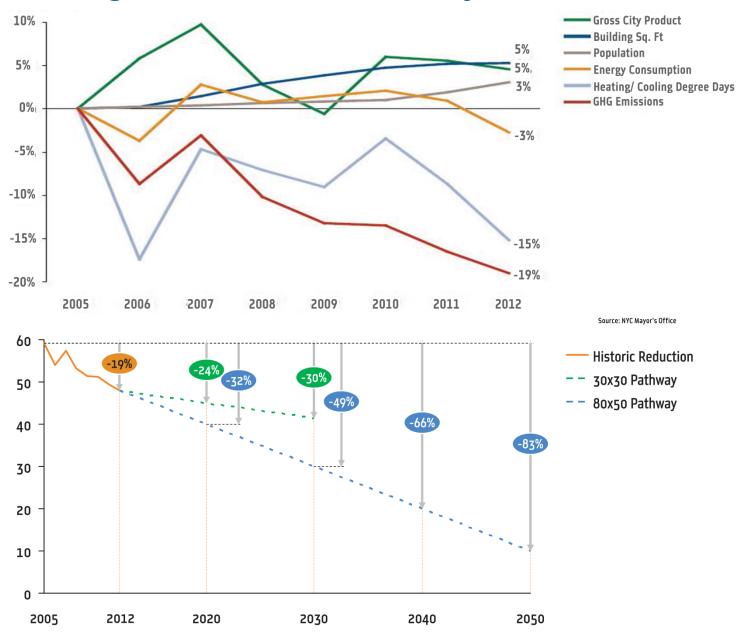
**Packages** 

Stacy Lee

**September 18, 2014** 



#### NYC's GHG goal is 30% reduction by 2030; 19% as of 2012

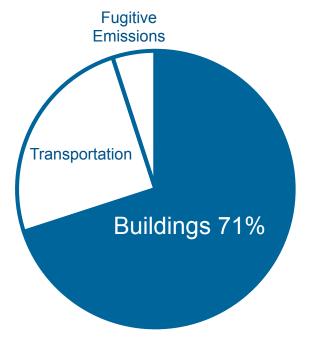


Source: NYC Mayor's Office

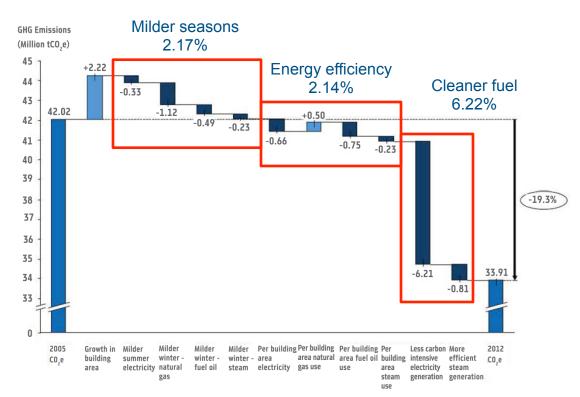
### While emissions from buildings have dropped since 2005, more needs to be reduced through energy efficiency

2012 Citywide Emissions by Sector

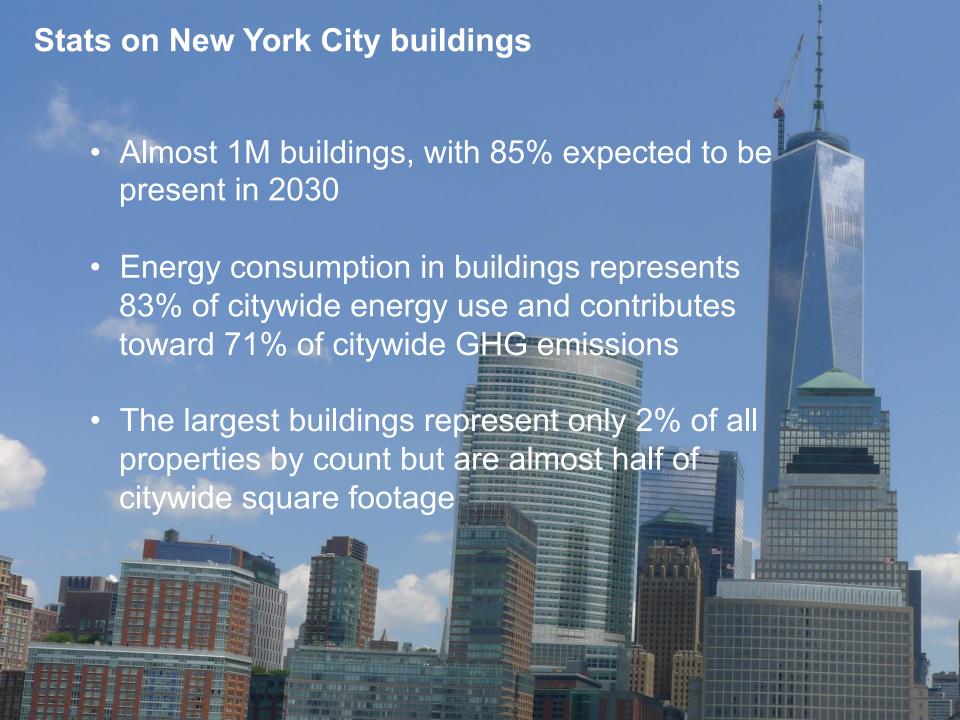
2005-2012 Changes in Citywide Building Emissions







Source: NYC Mayor's Office



### Energy efficiency in large buildings can make the highest impact; measuring and tracking energy data is essential

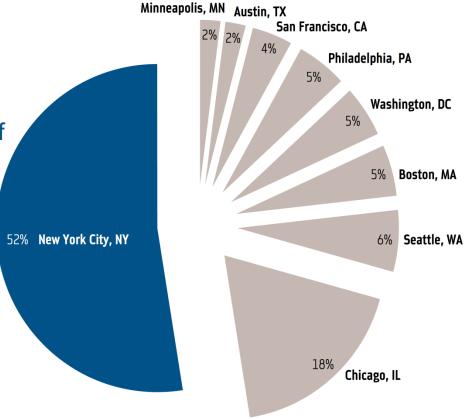
THE NEW YORK CITY

#### GREENER, GREATER BUILDINGS PLAN

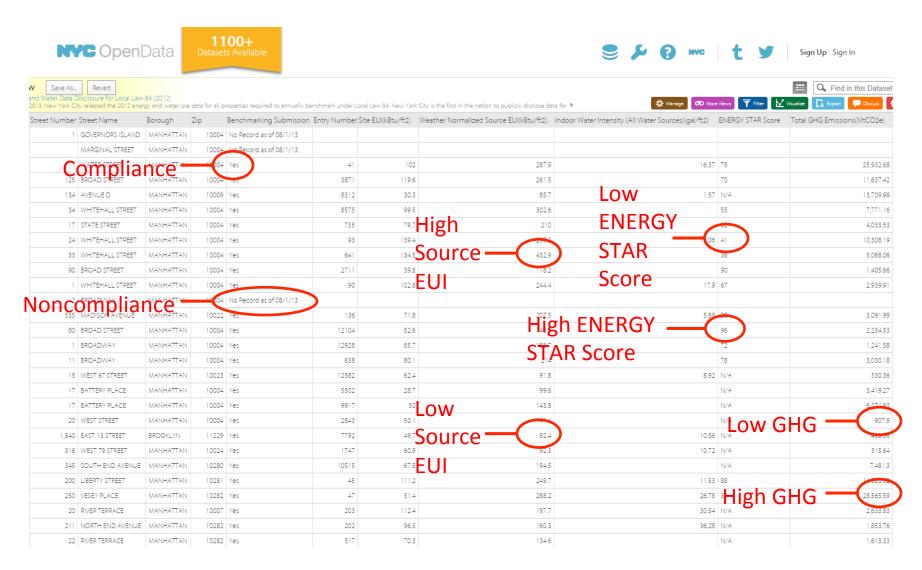
- New York City Energy Code
- Benchmarking
- Energy Audits and Retro-commissioning
- Lighting Upgrades and Sub-metering

#### **Energy and Water Benchmarking**

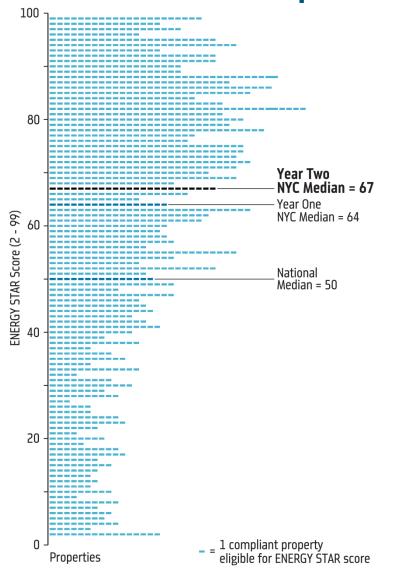
- 13,000 properties with each building >50,000 sq ft (4,645 sq m), or groups of buildings>100,000 sq ft (9,290 sq m); 24,000 private buildings
- Private and public area required to benchmark is 2.5B sq ft (~240M sq m)
- Data collected through U.S.
  Environmental Protection Agency tool (ENERGY STAR Portfolio Manager)



# Through annual benchmarking and disclosure, properties are labeled with information publicly available at nyc.gov/ll84data

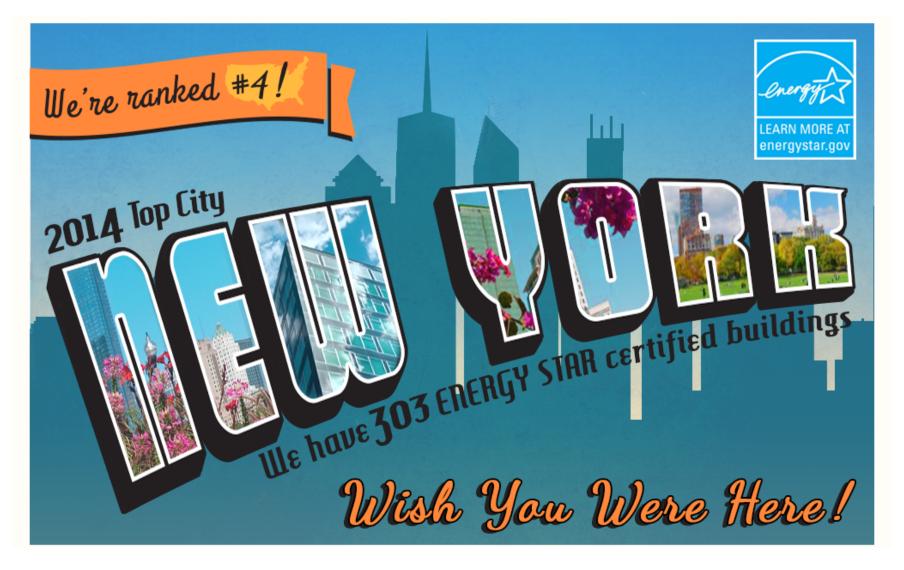


### Annual analysis conducted by the City of New York reveals trends and context for public information

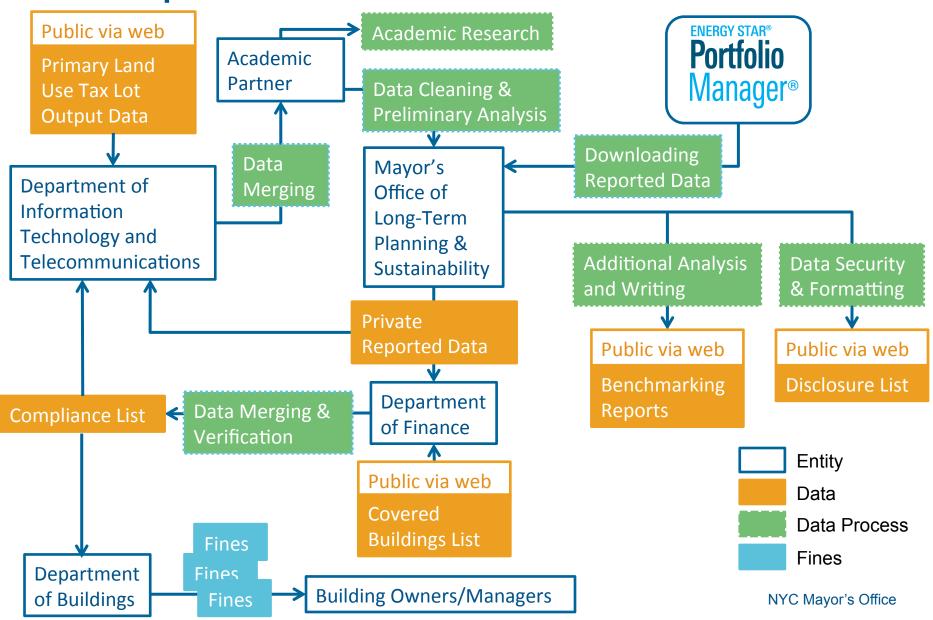


- Multifamily properties make up the majority of the largest buildings and use the most energy
- High energy users are also high water users
- Median citywide ENERGY STAR
  score increased and energy
  consumption decreased in the past
  three years, but there are a number of
  non-energy efficiency factors,
  including Hurricane Sandy,
  benchmarking tool upgrade, fuel
  switching, etc.
- 2014 Benchmarking report will be released in September 2014: <u>www.nyc.gov/LL84data</u>

# Number of certified NYC buildings have increased since 2009; as of Sept 2014, multifamily buildings can now certify



# Data Verification, Analysis, and Disclosure is Challenging and Complex



### Ongoing efforts must be supported with more information, financing, voluntary programs, education, and mandates

#### U.S. Department of Energy Asset Score program

- Evaluate building envelope; mechanical, electrical, and hot water systems to receive tailored retrofit recommendations
- www.1.usa.gov/1qZvBAk

#### NYC Energy Efficiency Corporation

- · Provides loans and enhances credit to undertake retrofits
- www.nyceec.com

#### NYC Carbon Challenge

- Universities, hospitals, commercial offices, multifamily buildings sign on to reduce 30% emissions in 10 years
- www.nyc.gov/carbonchallenges

#### Green Light New York

- Learning and presentation space for lighting
- www.greenlightny.org
- Local Energy Code, Audits and Retro-commissioning, Lighting Upgrades, Submetering (LL85, LL87, and LL88 of the Greener, Greater, Building Plan)
  - Energy code is updated every 3 years; audits and retro-commissioning is required every 10 years; lighting upgrades and sub-metering are required by 2025
  - www.nyc.gov/ggbp

### Public sector leadership is crucial to motivate energy efficiency in the private sector

- City of New York's goal for city buildings is 30% reduction by 2017
- Accelerated Conservation and Efficiency (ACE)
  program fast tracks funding for shovel-ready
  projects; expected to save \$25M/year and reduce
  50,000 MTCO<sub>2</sub>e
- City properties annually disclose benchmarking data at <u>www.nyc.gov/ll84data</u>
- Additional programs promote efficient operations and maintenance, deploy innovative technologies, encourage competition among facility operators

