

Using Data to Inform Policy & Efficiency Implementation

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BuildingEnergy NYC:

The Next Step in Benchmarking

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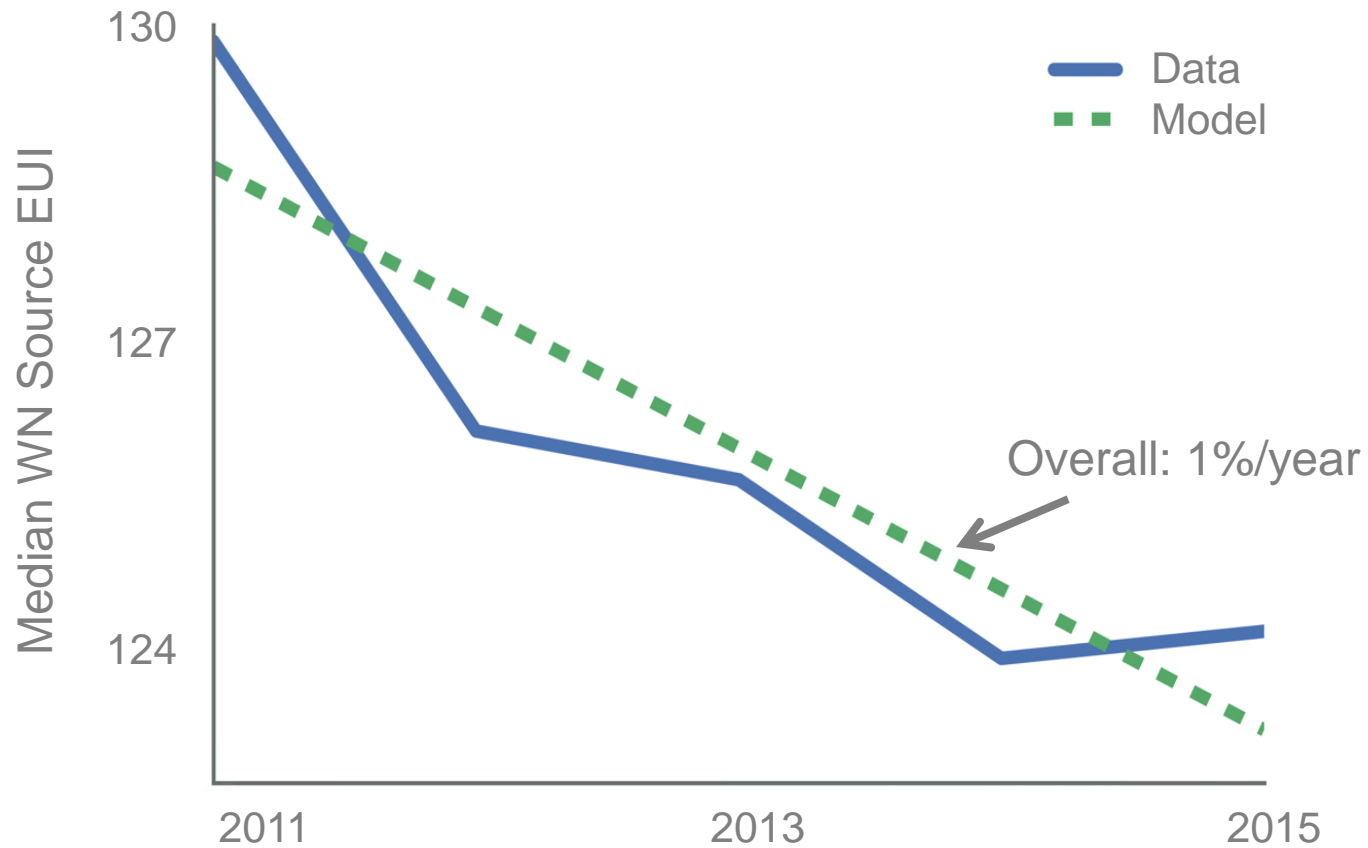


What Data Can We Use?

- LL84 disclosure data:
 - Is it working?
 - Where is it working?
- Building consumption and typology databases
 - Understanding building differences
- Retrofit/Rehab Measurement & Verification
 - What types of improvements are feasible?

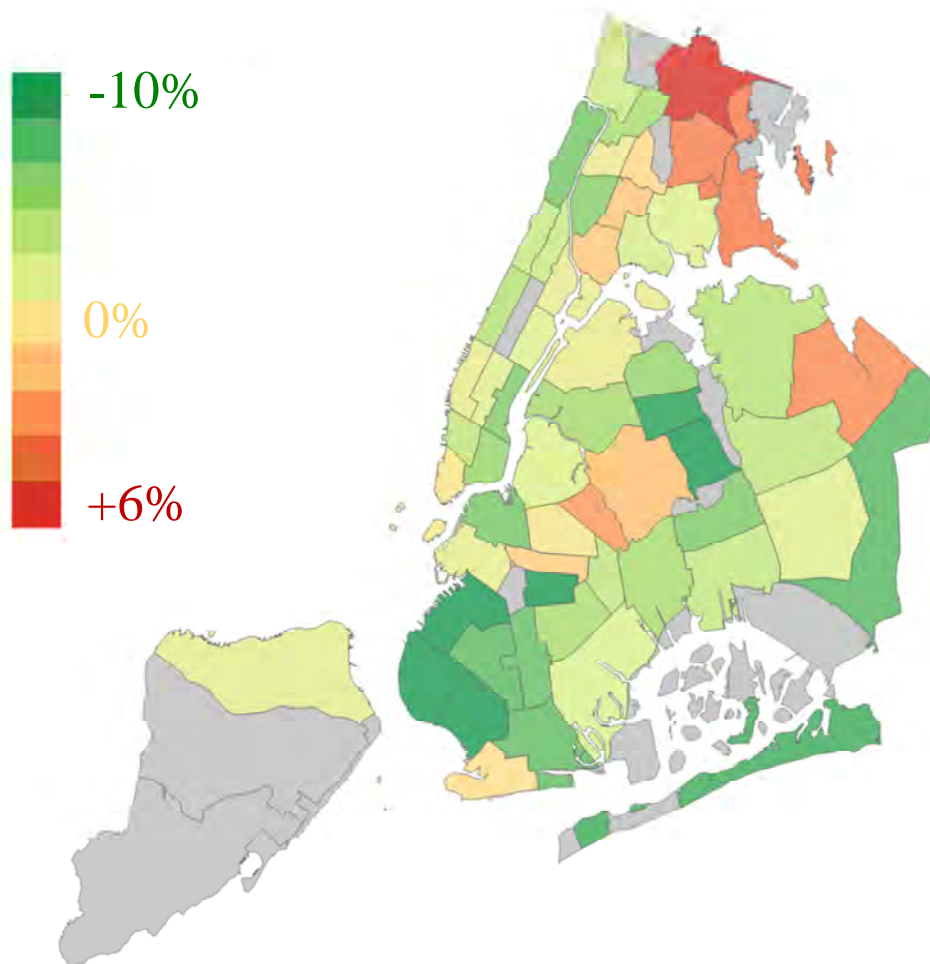
How Has EUI Changed Over Time?

Source EUI for Multifamily



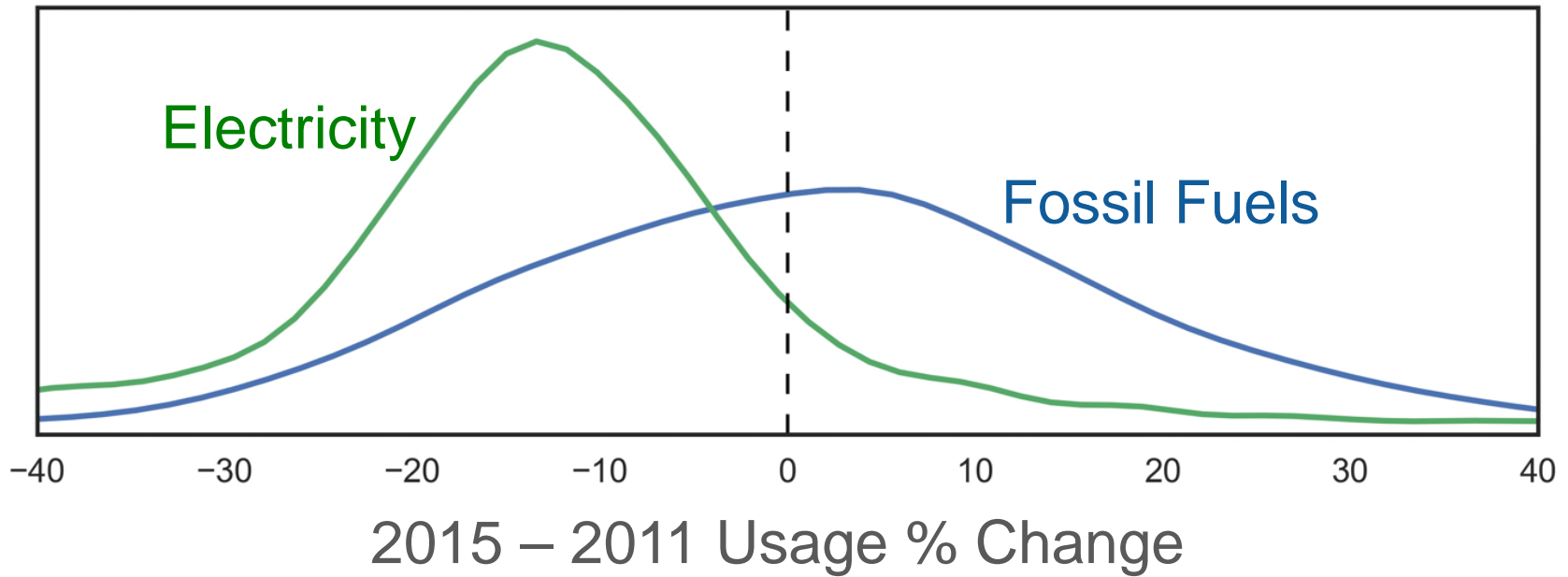
Where Are Buildings Improving?

Weather Normalized Source EUI % Change From 2011 to 2015



Borough	% Change
Queens	-7.1%
Brooklyn	-6.6%
Manhattan	-3.9%
Bronx	-2.5%

How Are They Improving?



Fuel	Typical % Change
Source EUI	-4.6%
Fossil Fuels	+0.9%
Electricity	-12.3%

Which Buildings Are Improving

- Average change from the worst, average and best buildings in 2011:
- Average change for the 10% of buildings with the largest improvement:

Quartile	2011 EUI	2015 EUI	Change
1 st	98	101	+2%
2 nd	121	116	-4%
3 rd	141	132	-6%
4 th	173	156	-10%

Metric	2011 to 2015 Change
GHG	-28%
Source EUI	-27%
Electricity	-32%
Fossil Fuels	-25%

Are We On Track for 80x50?

- For interim goal of 40x30, we need a GHG reduction of:
 - 40% from 2005 levels, or
 - 28% from 2014 levels, which is
 - 1.75% per year
- MF buildings have reduced:
 - 6.7% in 4 years, or
 - 1.68% per year

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For more on mapping LL84:

<http://www.brightpower.com/exploring-citywide-energy-usage-part-ii/>

