

DCAS

NYC
Citywide
Administrative
Services



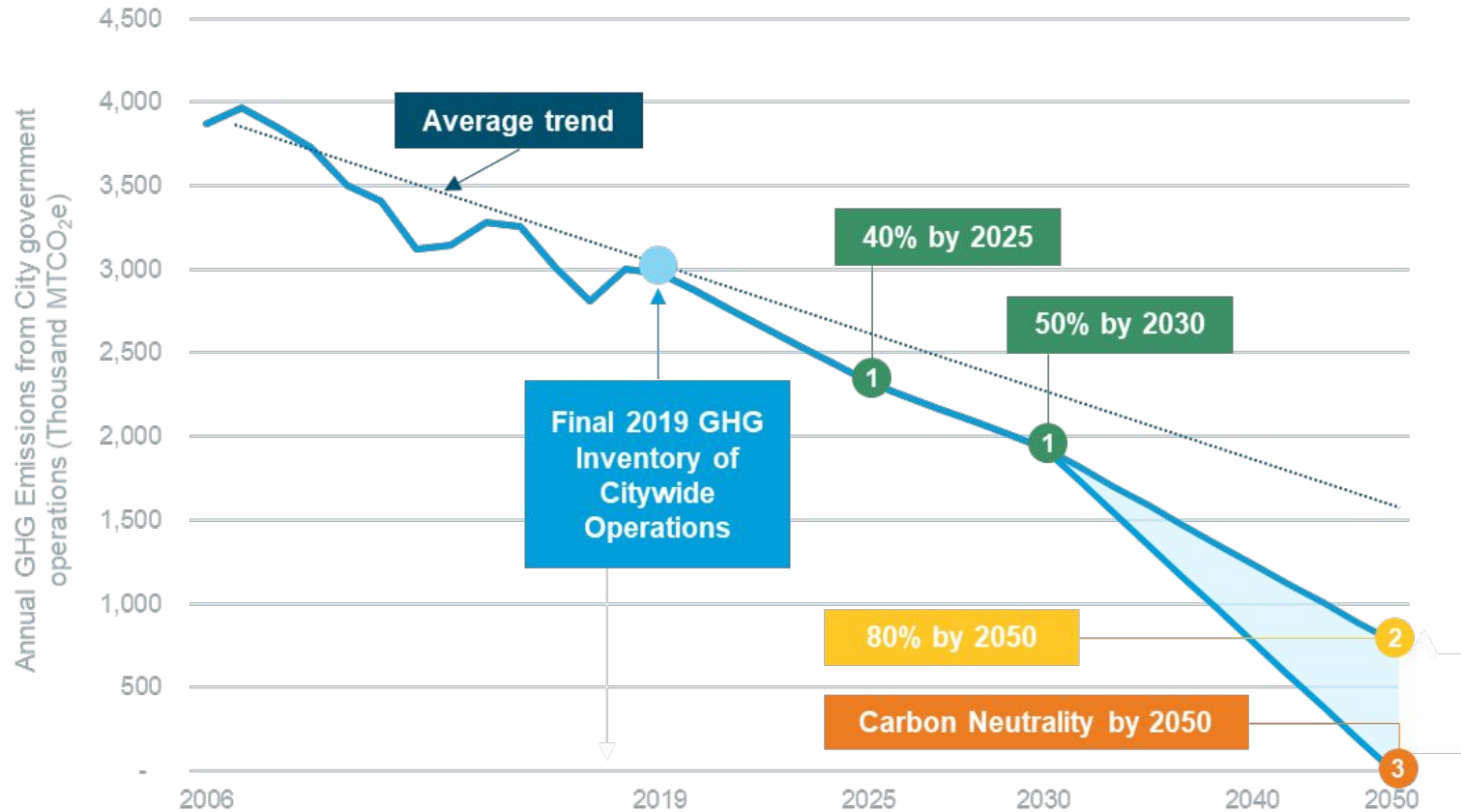
Stakeholder Challenge Buildings and Construction

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NYC's Climate Limits & Emissions Reduction Progress



1 40x25 and 50x30: LL97 of 2019

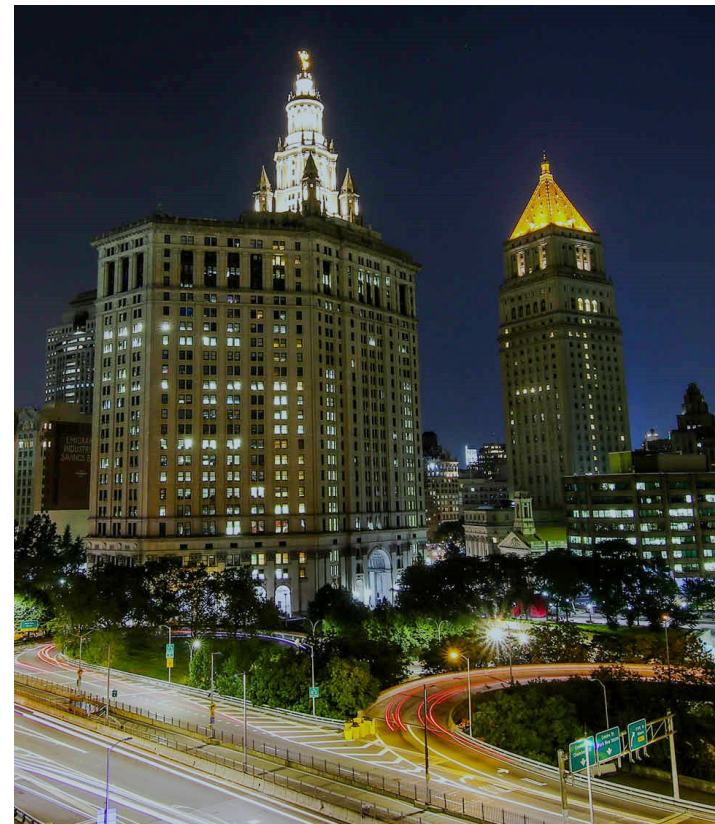
2 80x50: LL64 of 2014

3 Carbon Neutrality by 2050: OneNYC (2019)

Challenge | Electrifying NYC's older building stock

The City must electrify its large, diverse building portfolio in order to embark upon the path to deep decarbonization, however it faces key challenges:

- 1. Lack of market-ready, scalable commercial retrofit technologies.** Application needs of the City's building stock include:
 - **Older, diverse buildings** of various sizes and operations
 - **Retrofit applications.** New construction technologies are insufficient.
 - **Cold-climate applicability**
 - **Replicable, scalable systems**
- 2. Workforce development is needed to build skills and capabilities for electrification retrofits at scale.**



Key Obstacles | Building Electrification Retrofits

1. Technology Needs

- **Retrofit-ready**
- **Modular & Minimally invasive**
- **Scalable**

2. Workforce Needs

- **Skills development**
- **Efficiency-focused**
- **Scalable**

DCAS's Role

- **Identify electrification technologies** needs with agencies
- **Develop market** by procuring technological solutions at scale
- **Support workforce development** by leveraging City resources as feasible


Benefits & Consequences | Electrification Retrofits

Benefits

 <p>Economic inclusivity through development of local green workforce and family sustaining jobs</p>	 <p>Catalyze the private sector with municipal investment</p>	 <p>Promote equity & environmental justice by reducing on-site combustion, improving air quality & health outcomes</p>	 <p>Achieve emissions reductions to support NYC and NYS climate goals</p>
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Consequences

 <p>Missed opportunity for market development and catalyzation</p>	 <p>Sunk costs and stranded assets (fossil-fuel heat)</p>	 <p>Fail to achieve the deep decarbonization required by climate goals</p>
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A background image showing construction workers on a site, overlaid with a semi-transparent blue filter. The workers are wearing hard hats and safety vests, and are working on a structure that appears to be part of a building or infrastructure project. The text is overlaid on this image.

Regarding Buildings and Construction, to achieve New York's Carbon & Equity goals, a critical obstacle to collaboratively overcome within the next 12 months is:

...electrifying NYC's aging and diverse municipal building stock with the right technology and workforce.

DCAS

THANK YOU