CAR.Committee

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To: CAR.Committee **Subject:** CAR-1(2) presentation

Attachments: CAR Meeting Slides- McCoy.pptx

Please see attached.

Kind regards, Caitlin

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Maui County Climate Action

Lessons from New York City Building Policy



New York City Building Policies

2009 – Greener Greater Buildings Plan

 $2014 - 80 \times 50$

2019 - The Climate Mobilization Act



Greener Greater Buildings Plan – 2009

LOCAL LAWS 84, 85, 87, 88

Local Law 84 - Benchmarking

- Private buildings over 25,000 ft² and public sector buildings over 10,000 ft² must report their energy and water consumption each year.
- o Information is publicly disclosed and used by the city to inform future policies.

Local Law 85 - NYC Energy Conservation Code

- Requires buildings to meet the most current energy code when there is a renovation or alteration project.
- Previously, only buildings renovating more than half the building system had to bring the entire building up to the current code.

Local Law 87 - Energy Audits and Retro-Commissioning

- o Large buildings are required to audit, retro-commission, and submit information to the City.
 - Meant to complement annual benchmarking to optimize building energy performance.



 $80 \times 50 - 2014$

LOCAL LAW 66

- Commitment to reduce citywide emissions 80% below 2005 levels by 2050.
 - o Interim target to reduce GHG emissions 40% by 2030 (40 x 30).
- One City, Built to Last 10 year plan to achieve by 2025:
 - Complete efficiency improvements in every City-owned building with significant energy use and install 100 MW of on-site renewable power.
 - o Implement performance standards for new construction that cost effectively achieve highly efficient buildings, looking to Passive House, carbon neutral, or "zero net energy" strategies.
 - Develop interim targets for existing buildings, to be met through voluntary reductions and new regulations, such as performance standards and measure-based mandates, to be triggered if adequate reductions are not achieved.



RETROFITTING

- The city launched the NYC Retrofit Accelerator and Community Retrofit NYC which work with existing building owners and operators to:
 - o assess how to improve energy and water efficiency with retrofitting;
 - o connect them with qualified contractors;
 - o find cash incentives and financing options to pay for upgrades;
 - o train building staff
- Since the program started, the Retrofit Accelerator has engaged over 3,000 buildings, providing assistance to over 2,300 energy efficiency projects throughout the five boroughs.



The Climate Mobilization Act – 2019

LOCAL LAWS 92, 94, 95, 96

- Local Laws 92, 94 Green roofs
 - o Require all new buildings and buildings undergoing major roof renovations to be install solar panels, green roofs, or some combination of the two and to reduce urban heat hazards.
- Local Law 95 Building Energy Efficiency Grade
 - Amends how energy efficiency grades are calculated.
 - o Local Law 33 of 2018 requires buildings that annually benchmark their energy and water consumption to display their energy efficiency scores and grades near a public entrance.
- Local Law 96 PACE
 - Establishes long-term, low-interest Property-Assessed Clean Energy financing to fund upgrades to building energy and water efficiency.



New York City Building Policies

The Climate Mobilization Act – 2019

LOCAL LAW 97

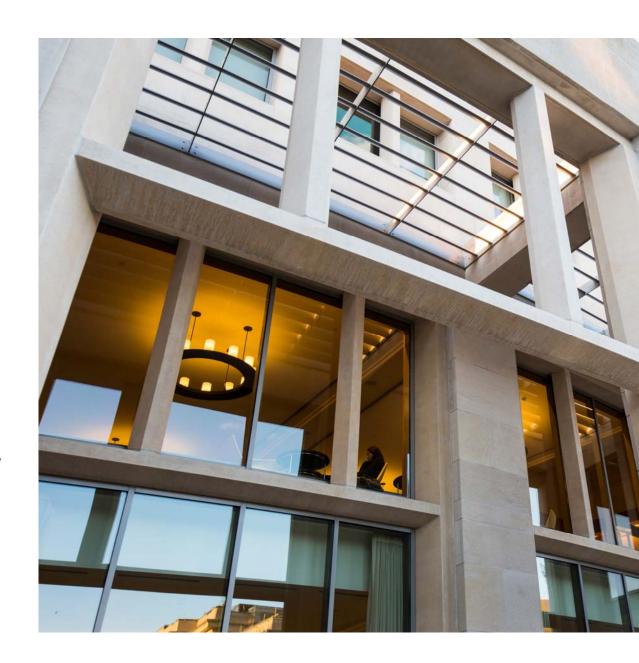
Buildings Mandate

- o Requires all buildings larger than 25,000 ft² to meet ambitious carbon reduction targets.
- New emissions standards begin in 2024 and by 2030, emissions from these large buildings must be reduced by 40% from 2005 levels.
- o By 2050, reductions must be 80% below 2005 levels.
- o If owners don't comply they'll face substantial fines of as much as \$1 million (or more) per year for the largest buildings.
- Potential cap and trade system for compliance is being studied and considered.
 - Study due by January 2021.
- Affects 50,000 of New York City's 1 million buildings.



New York City Building Policies Lessons from NYC

- Benchmarking
- Targeting the largest, most energyintensive buildings for reductions
- Adopting strong efficiency standards for new buildings
- Using renovations as a trigger for retrofitting and bringing a building up to the current code
- Mobilizing resources to facilitate upgrades
- Public buildings as models for sustainability





Thank you Questions?

