

Historic Preservation and Climate Action

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SUSTAINABLE DC VISION

A group of people are kayaking on a calm river. In the center, a woman in a red shirt and sunglasses is smiling. They are surrounded by other kayakers in various colored kayaks (yellow, red, green). In the background, there is a concrete bridge and a dense line of trees with some autumn-colored foliage. The sky is clear and blue.

Make DC the healthiest, greenest, most livable city for all District residents.

Goals for 2032



ADAPT TO CLIMATE CHANGE

CLIMATE READY BUILDINGS

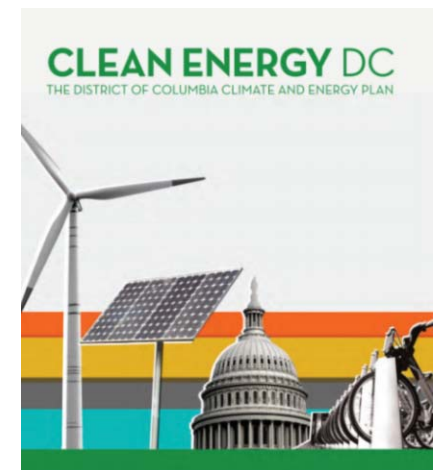
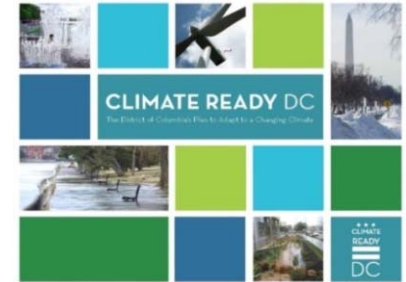
CUT ENERGY USE 50%

50% RENEWABLE ENERGY

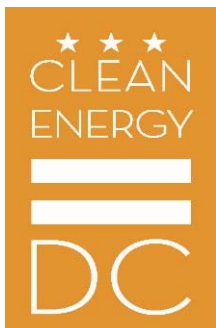
NET ZERO NEW BUILDINGS

NET ZERO RETROFITS

CUT GHG EMISSIONS 50%



Mayor Bowser Commitment to ZERO Carbon by 2050



CLEAN ENERGY DC MEANS....



CLEAN ENERGY DC OMNIBUS ACT OF 2018

New Buildings

Adopt a **Net-Zero Energy building code** by 2026

Existing Buildings

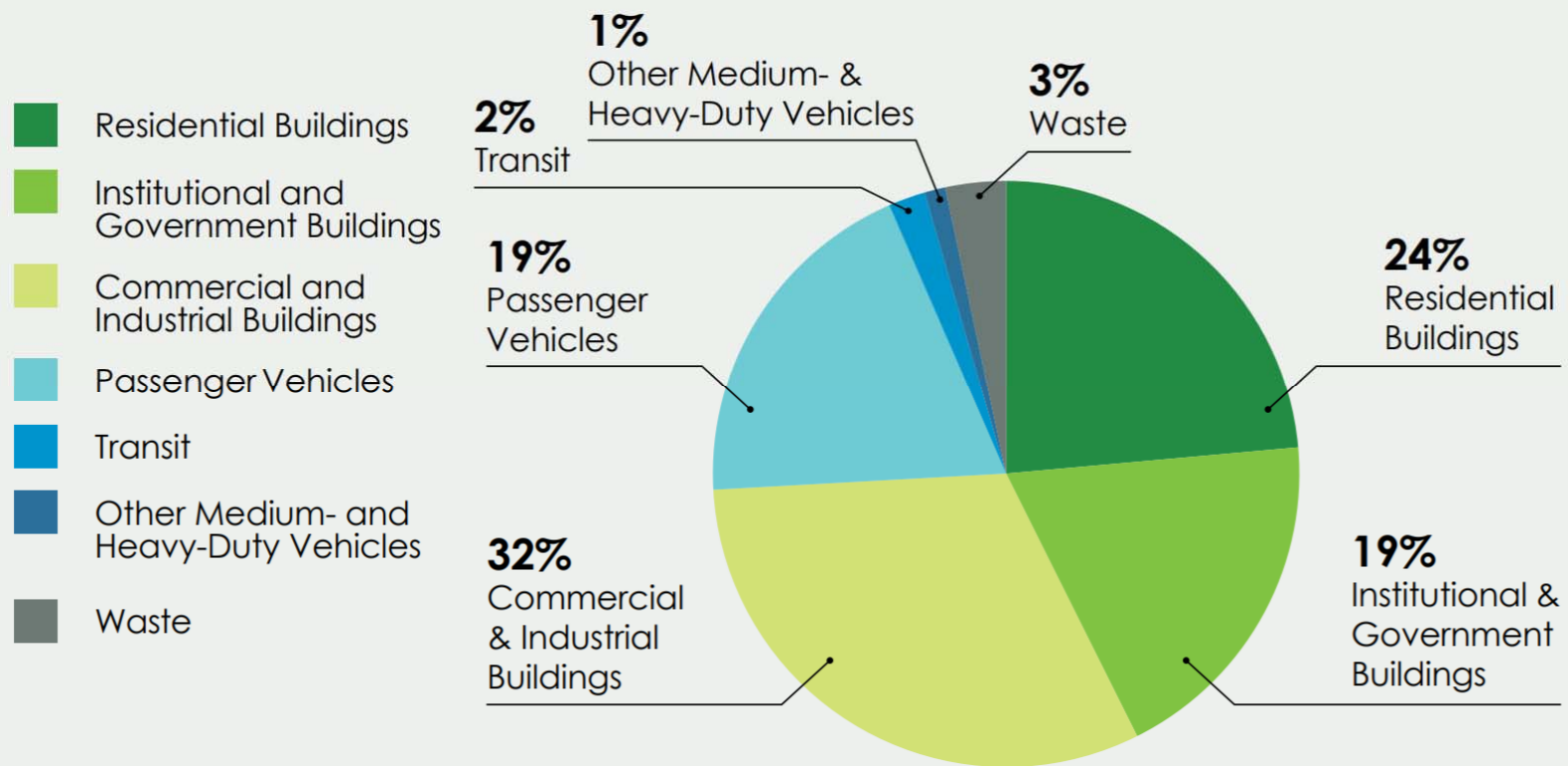
Improve the performance of existing buildings by implementing a **Building Energy Performance Standard**

100% Renewable Electricity

Require **100% renewable electricity** by 2032, and **10% from local solar** by 2041

ENERGY USE AND EMISSIONS IN DC

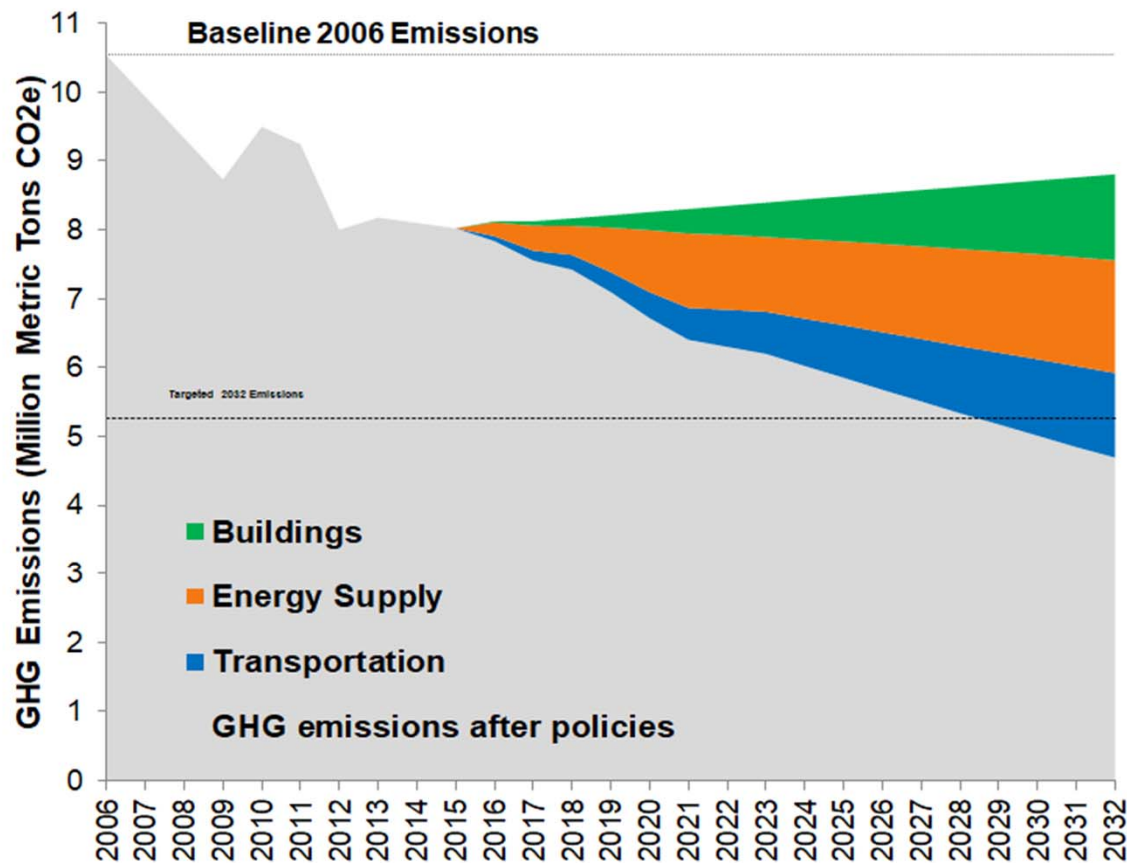
MODELED PROPORTION OF GHG EMISSIONS BY SECTOR



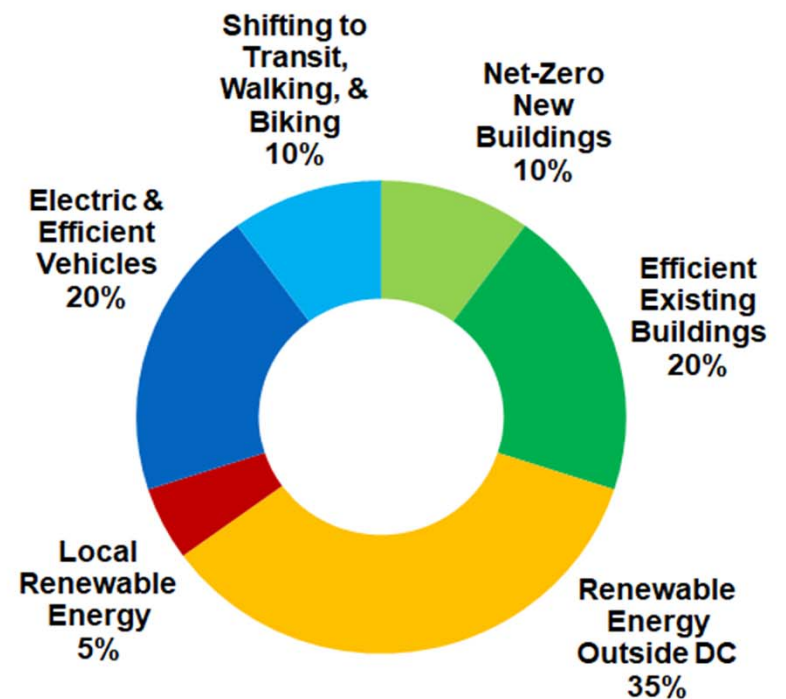
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ESTIMATED GHG SAVINGS: 56%



RELATIVE IMPACT OF ACTION AREAS



NOTEWORTHY POLICIES AND REGULATIONS

New Construction & Major Renovations

- Net-zero Energy
- Electrification*
- Embodied Carbon*

Existing Buildings

- Energy and Water Benchmarking
- Building Energy Performance Standard (BEPS)
- Solar Renewable Energy Credits (SRECs)
- [Sustainability Guide for Older and Historic Buildings](#)
- Inflation Reduction Act

* Proposed only

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NET-ZERO ENERGY AND ELECTRIFICATION

- NZE codes are called for in Clean Energy DC Plan (Recommendation NC.1)
- Recently codified in law
 - Required by December 31, 2026 or else Appendix Z will be the Energy Code for all new construction and substantial rehab
 - Defines NZE as all-electric, banning gas in new construction & substantial rehab starting January 1, 2027
- Voluntary NZE alternative pathways in 2017 DC Energy Code (includes App. Z)
- Next planned update 2023
 - Targeting building electrification and increased efficiency
- Following update planned for 2026
 - Stepping down to reach mandatory NZE

EMBODIED CARBON

- Not currently measured or regulated
- Goal of carbon neutrality by 2050 doesn't yet include embodied carbon
- Clean Energy DC and SDC didn't address
- Carbon Free DC plan under development, will address
- Next frontier for DC
- Big opportunity for building reuse



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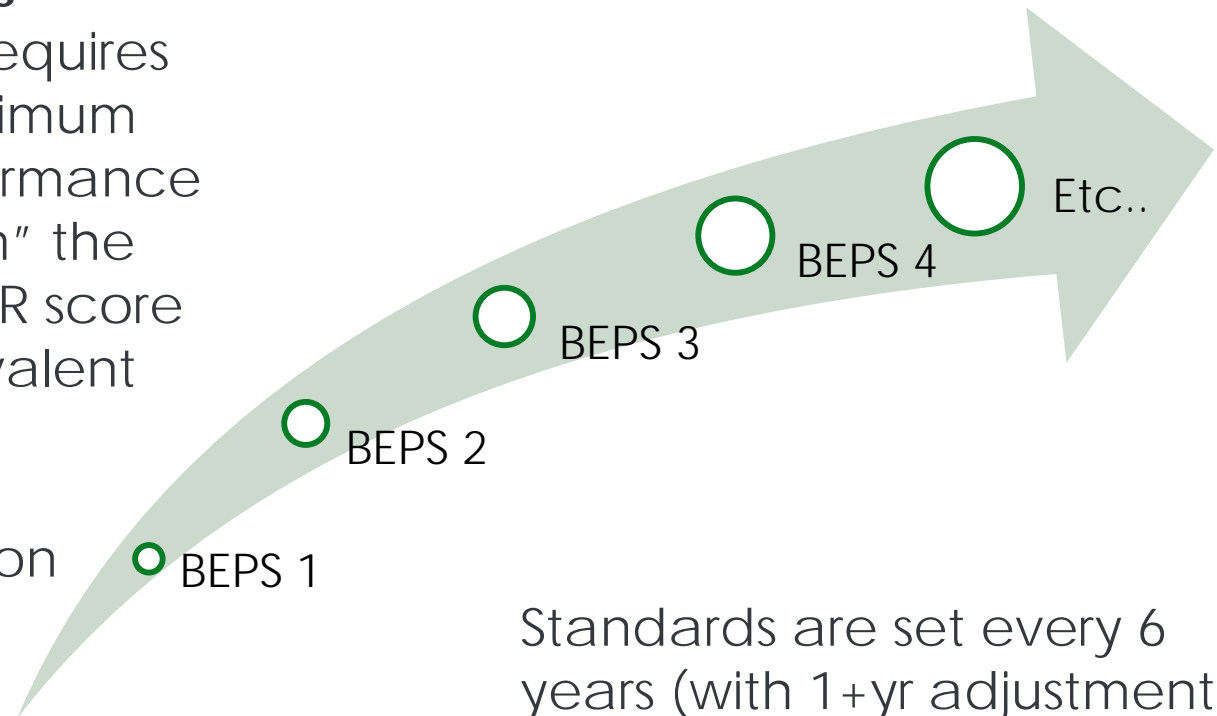
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BUILDING ENERGY PERFORMANCE STANDARD

Clean Energy DC Omnibus Amendment Act of 2018 requires an establishment of a minimum threshold for energy performance that will be “no lower than” the local median ENERGY STAR score by property type (or equivalent metric).

First standard established on January 1, 2021.



Standards are set every 6 years (with 1+yr adjustment for COVID in Period 1).

BEPS APPLICABILITY

As the benchmarking requirements ratchet down in square footage over time, the buildings will be required to meet the BEPS in the following periods until all buildings 10,000 sq. ft. and over are following the performance standards.

BEPS 1:

Private buildings >50,000 sq. ft.
and DC-owned >10,000 sq. ft.

BEPS 2:

Private buildings >25,000 sq. ft.
and DC-owned >10,000 sq. ft.

BEPS 3:

Private buildings and
DC-owned >10,000 sq. ft.



RESOURCES

Department of Energy & Environment

coronavirus.dc.gov

View [Mayor Bowser's Presentation on DC's COVID-19 Situational Update: September 20.](#)

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Net-Zero Energy Buildings in the District

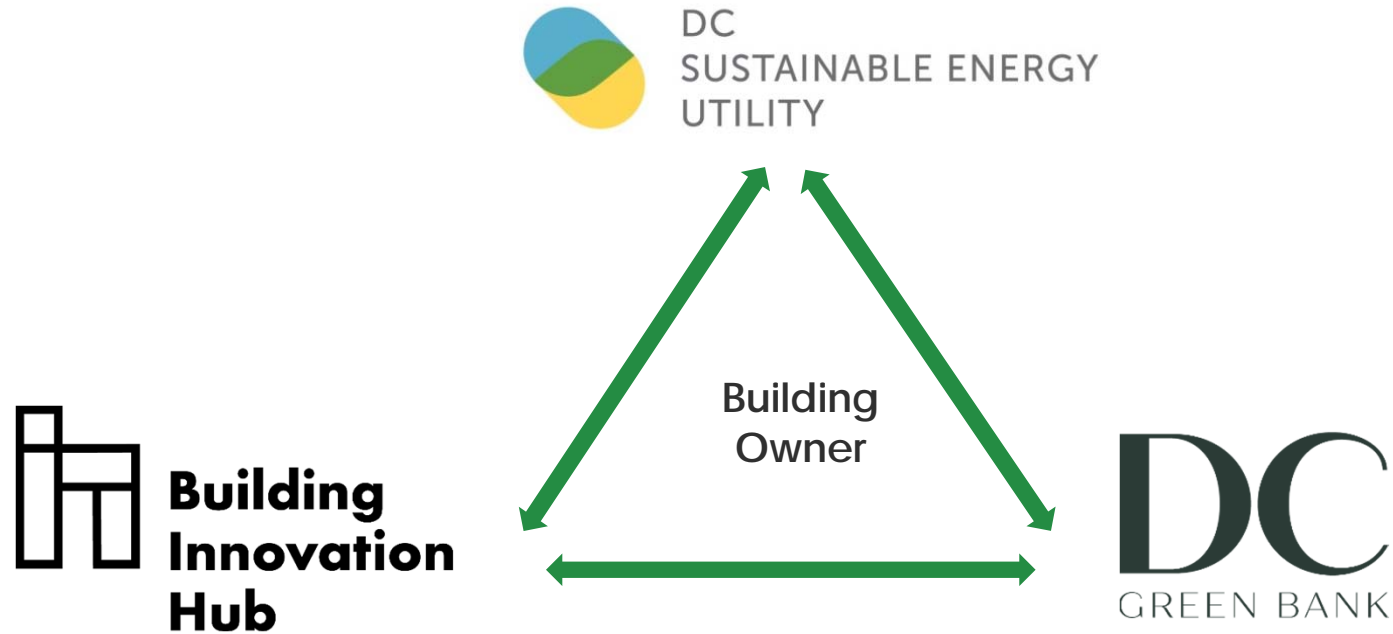
Net-Zero Energy (NZE) buildings are generally understood as a simple concept – a building that annually consumes as much energy as it produces. These buildings minimize their greenhouse gas contributions, are cheaper to operate, provide healthier and more pleasant places to live, work and play, and will be increasingly important components of the District's climate action plan. Clean Energy DC, the District's detailed plan to reduce greenhouse gas emissions, calls for all new



The District has banned the use of food service products made of expanded polystyrene. [Read More>>](#)

<https://doee.dc.gov/service/netzeroenergy>

RESOURCES



~ \$30 Million in American Rescue Plan (ARPA)
funding in FY22

QUESTIONS?



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