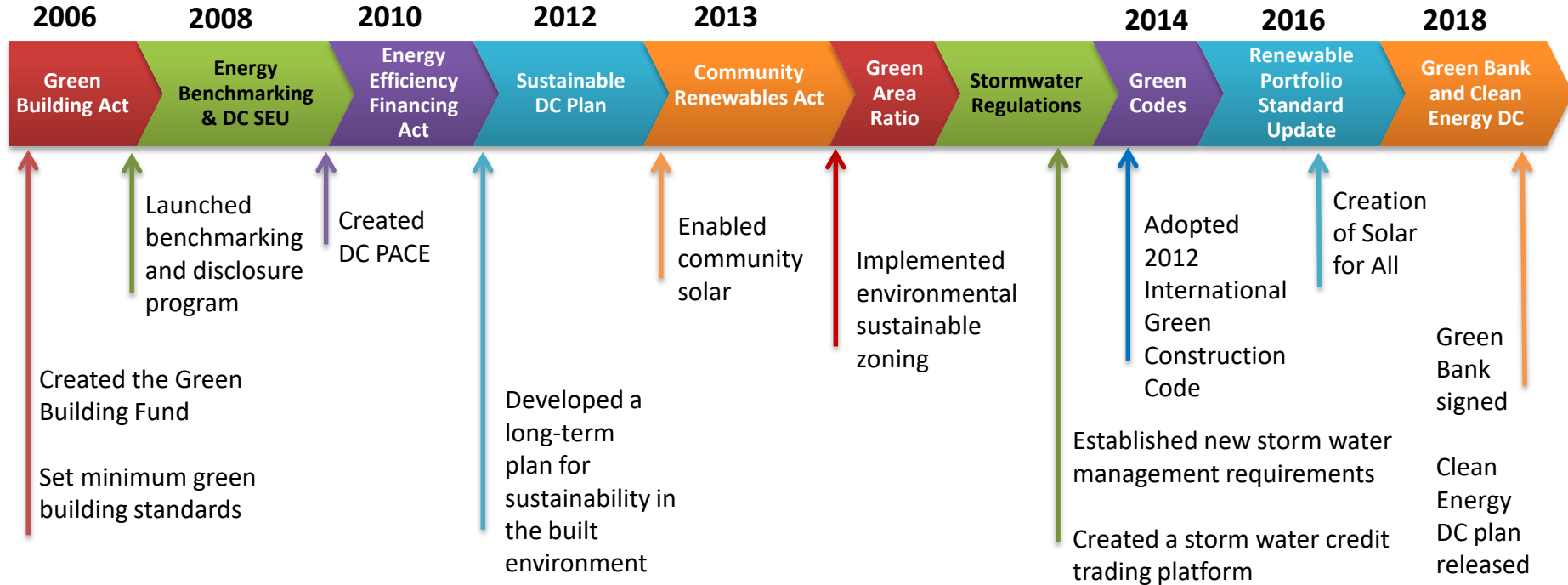




DOEE - URBAN SUSTAINABILITY ADMINISTRATION
CLIMATE CHANGE AND GREEN BUILDINGS
FOR COG'S CEEPC 10 YEAR CELEBRATION
NOVEMBER 14, 2018

POLICY TIMELINE



GREEN BUILDING ACT of 2006

- Requires green building standards of both publicly financed and private construction projects
 - Public buildings over 10,000 square feet
 - Includes any project receiving 15%+ public funding – largely schools and affordable housing
 - Private buildings over 50,000 square feet
 - Private requirements were first of its kind in the nation
- Created Green Building Advisory Council

ENERGY BENCHMARKING

Interactive web tool at:
energybenchmarkingdc.org

DC ENERGY BENCHMARKING

DEPARTMENT OF ENERGY & ENVIRONMENT
GOVERNMENT OF THE DISTRICT OF COLUMBIA

Address Ward Property Type Report Status

2013 2014 2015

Property Information

Energy Use

Water Use

Energy Performance Metrics

ENERGY STAR Score MORE INFO ▶

1 100

Site Energy Use Intensity MORE INFO ▶

0 651.5

Source Energy Use Intensity MORE INFO ▶

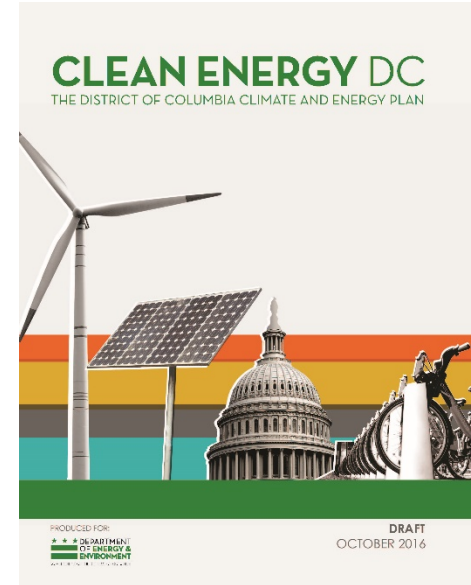
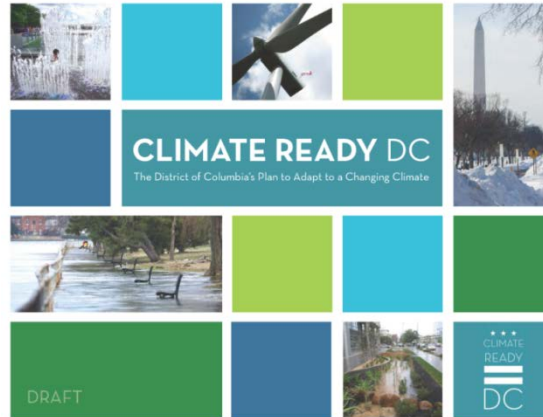
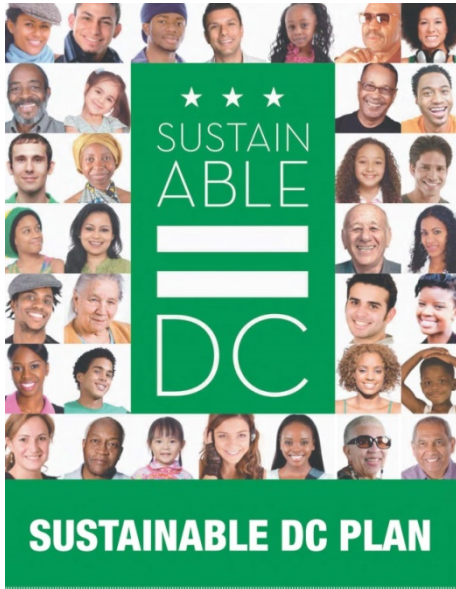
0 908

Greenhouse Gas Emissions

WASHINGTON, D.C.

Map labels: THUR BOULEVARD CABIN JOHN, RIVER ROAD, CHEVY CHASE, FRIENDSHIP VILLAGE, Brookmont, UNIVERSITY PARK, RIVERDALE PARK, NEW CARROLLTON, GOOD LUCK ROAD, Greenbelt Park, Rock Creek Park and Piney Branch Parkway, EDMONSTON, BLADENSBURG, ANNAPOLIS ROAD, LANDOVER HILLS, SPRINGDALE, COLMAR MANOR, MOUNT RAINIER, CHEVERLY, GLENARDEN, T HILLS, SHERIFF ROAD, LAKE ARBOR, SEAT PLEASANT, LARGO, WASHINGTON, D.C., CAPITOL HEIGHTS, CENTRAL AVENUE, KE, CORAL HILLS, WALKER MILL, FALLS CHURCH, ARLINGTON, ANACOSTIA RIVER, SILVER HILL ROAD DISTRICT HEIGHTS, RITCHEY ROAD, LAKE BARCROFT, MARLOW HEIGHTS, MORNINGSIDE, FORESTVILLE, TEMPLE HILLS, FOREST HEIGHTS.

SUSTAINABLE DC +



SUSTAINABLE DC^{***} 2.0

GOALS: 2032



ADAPT TO CLIMATE CHANGE

CLIMATE READY BUILDINGS

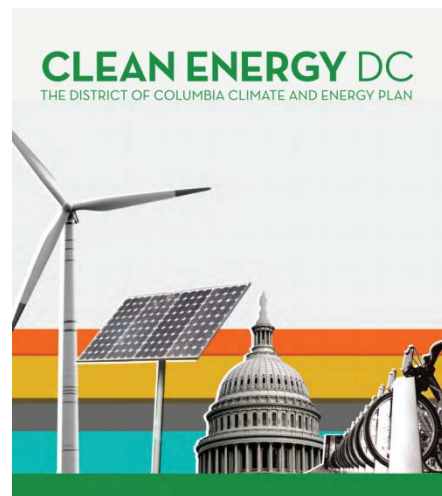
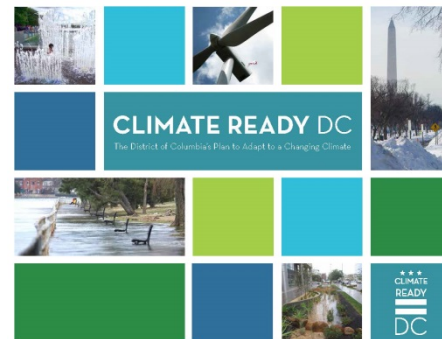
CUT ENERGY USE 50%

50% RENEWABLE ENERGY

NET ZERO NEW BUILDINGS

NET ZERO RETROFITS

CUT GHG EMISSIONS 50%





PLAN ORGANIZATION

18 HIGH-LEVEL STRATEGIES AND 77 SPECIFIC ACTIONS

TRANSPORTATION & UTILITIES

BUILDINGS & DEVELOPMENT

NEIGHBORHOODS & COMMUNITIES

GOVERNANCE & IMPLEMENTATION

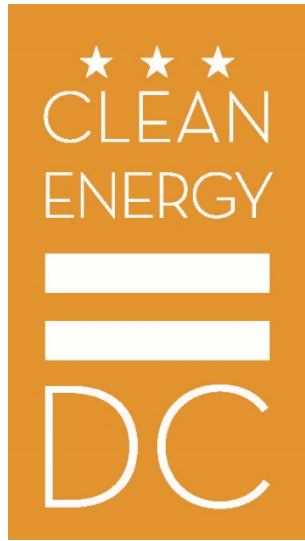
CLEAN ENERGY DC

DC's Climate Mitigation Plan

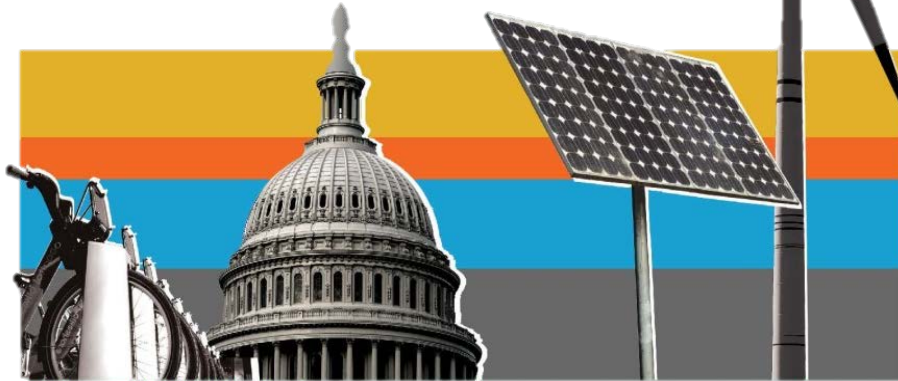
- The District's new climate and energy plan
- Roadmap for achieving the **Sustainable DC 2032** climate & energy targets
- Companion to **Climate Ready DC** climate adaptation plan
- Both a visionary and action-oriented plan
- Published as **draft** in Oct. 2016
- Finalized in August 2018

- Produced for DOEE by:





The District's roadmap for how we will reduce the city's GHG emissions by **50% by 2032, based on 2006 levels.**



▶ **NEW BUILDINGS**

Move towards a **Net Zero Energy building code** and shift away from the use of fossil fuels.

▶ **EXISTING BUILDINGS**

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

NEW CLIMATE GOAL FOR 2050

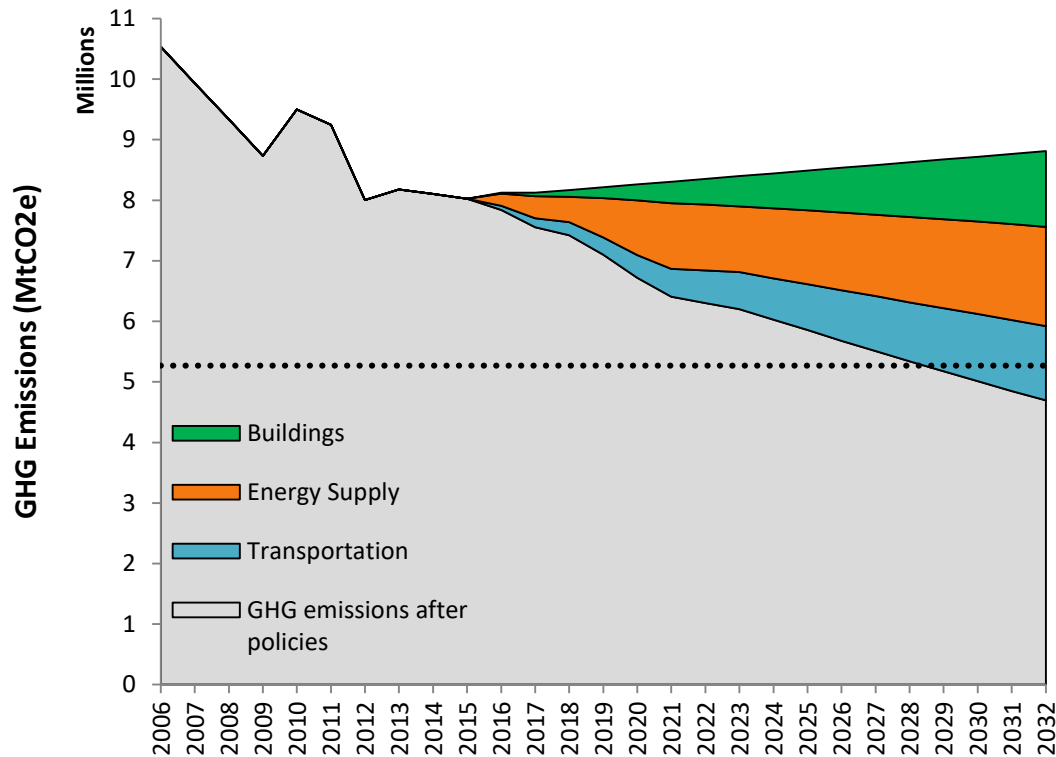


“Washington, DC is proud to be one of the many cities across North America – and around the globe – that is making climate change a top priority. Today, by making this pledge, we are backing up our DC values with action.”

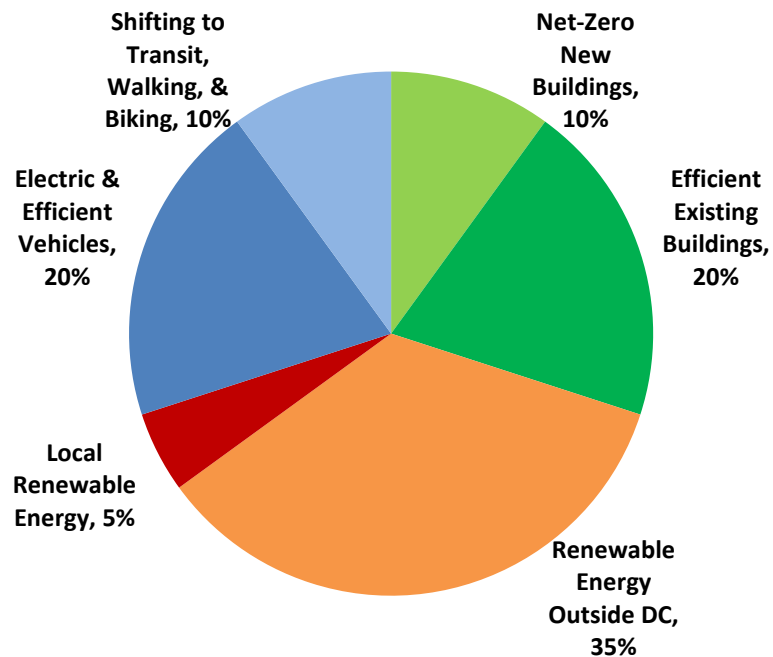
“That’s why I’m proud to commit Washington, DC to becoming a carbon neutral city by 2050.”

- Mayor Muriel Bowser, 2017

ESTIMATED GHG SAVINGS BY SECTOR



RELATIVE IMPACT OF ACTION AREAS IN CLEAN ENERGY DC



CONSTRUCTION CODE UPDATES

- Clean Energy DC Action - Path to 2032
- Proposed codes currently being reviewed by EOM
- Public Comment Period(s) to be hosted before proposal to Council
- 2018 Energy Conservation Code
 - 15% improvement in efficiency over current code
 - Significant efficiency changes for residential construction
- Approximately 3 year code development cycle
 - Stepping down to reach Net Zero by 2026

***CODES ARE
OUTDATED AS
SOON AS THEY
ARE PASSED.***

NET-ZERO ENERGY CONSTRUCTION

- Residential new construction – 2020
- Commercial requirements – 2026
- Proposed DC 2018 Energy Code includes Appendix Z: Net-Zero Pathway
- DC easing the path for adoption
 - Solar + Stormwater
 - Zoning regulations
 - Permitting
- District Energy & Microgrids



DC GREEN BUILDING INCENTIVES



▶ SPECIAL TAX ASSESSMENT

▶ CASH-FLOW POSITIVE



▶ COMMUNITY SOLAR

▶ LMI BENEFITS



DC
SUSTAINABLE ENERGY
UTILITY

▶ REBATES

▶ PAY FOR PERFORMANCE



▶ CREDIT ENHANCEMENTS

▶ LOANS AND INVESTMENTS

@DOEE_DC

