# DC's New Building Energy Performance Standards

DEPARTMENT OF ENERGY & ENVIRONMENT

GOVERNMENT OF THE DISTRICT OF COLUMBIA
MURIEL BOWSER, MAYOR

# SUSTAINABLE DC VISION

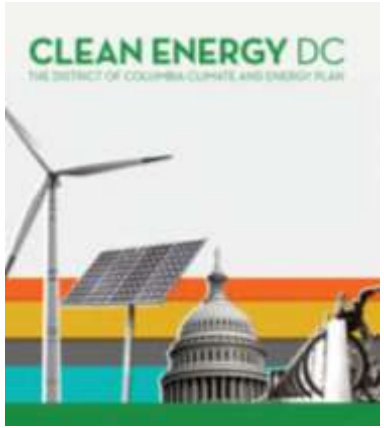
Make DC the healthiest, greenest, most livable city in the country.

# GOALS: 2032

SUSTAIN ABLE DC

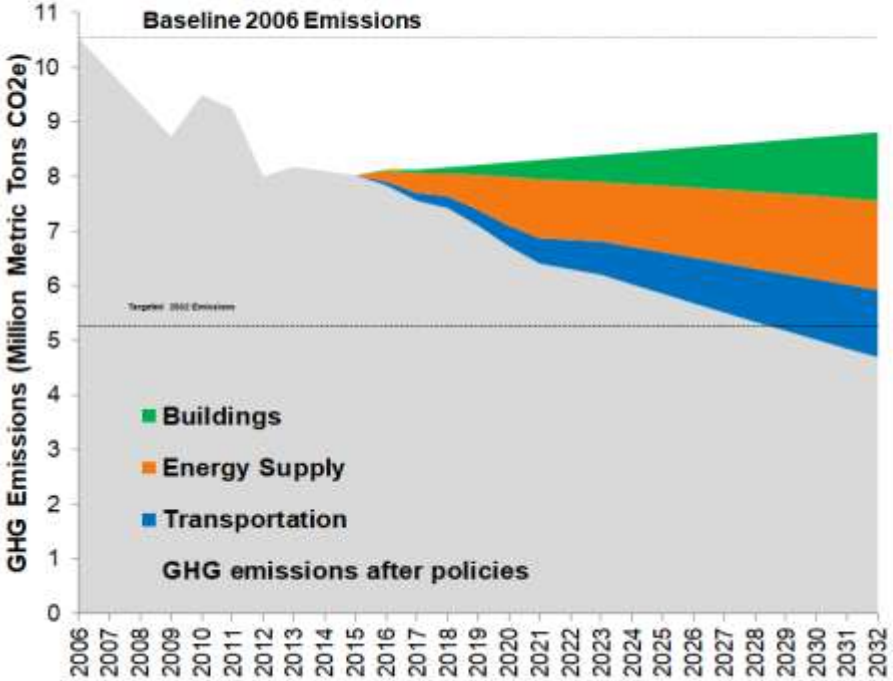
- ADAPT TO CLIMATE CHANGE
- CLIMATE READY BUILDINGS

- CUT ENERGY USE 50%
- 50% RENEWABLE ENERGY
- NET ZERO NEW BUILDINGS
- NET ZERO RETROFITS
- CUT GHG EMISSIONS 50%

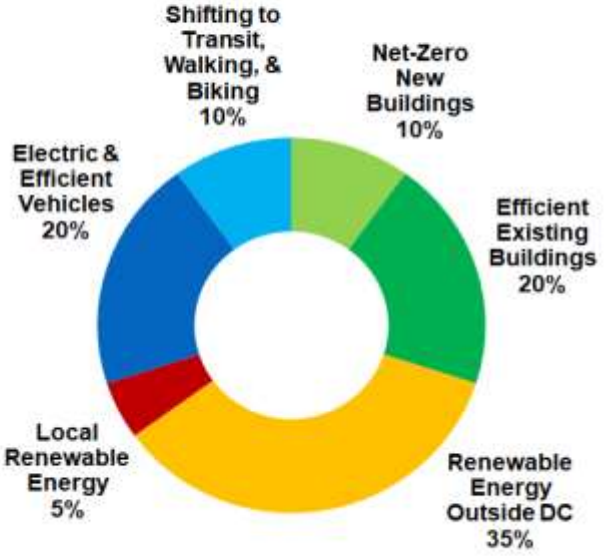



## Mayor Bowser Commitment to ZERO Carbon by 2050

# ESTIMATED GHG SAVINGS: 56%




# RELATIVE IMPACT OF ACTION AREAS



# CLEAN ENERGY DC MEANS….

CLEAN ENERGY DC OMNIBUS ACT OF 2018

## New Buildings

Adopt a Net Zero Energy building code by 2026

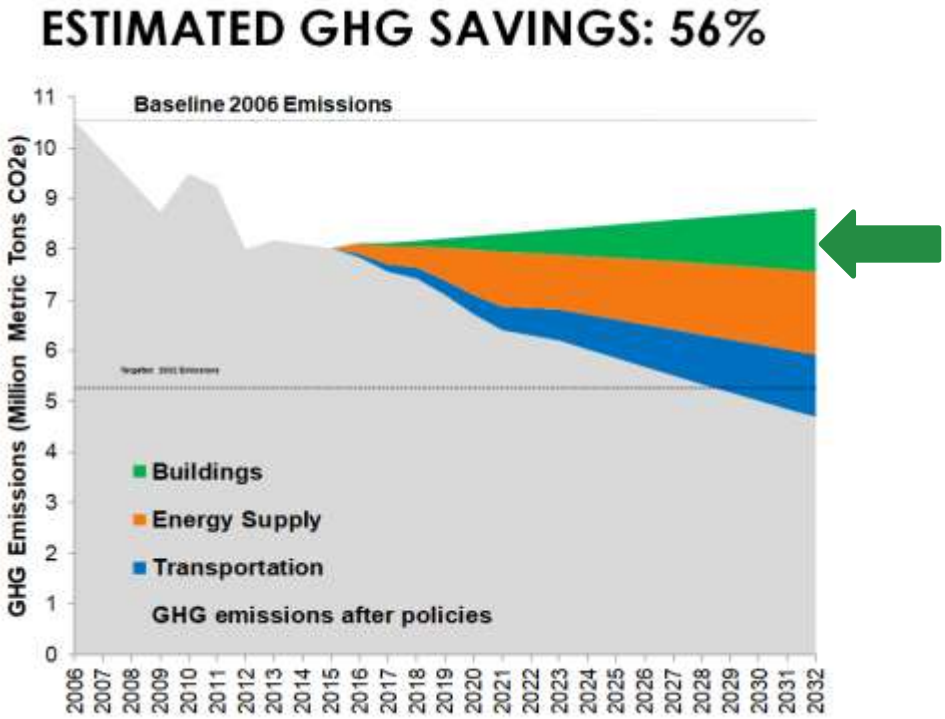
## Existing Buildings

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

# BEPS Energy Reduction Goals




21% reduction in source energy if all buildings meet the standard for their type and size subgroup.

- 18.7% from buildings over 50K sf
- 1.4% from 25K-50K sf buildings
- 1% from 10K-25K sf buildings

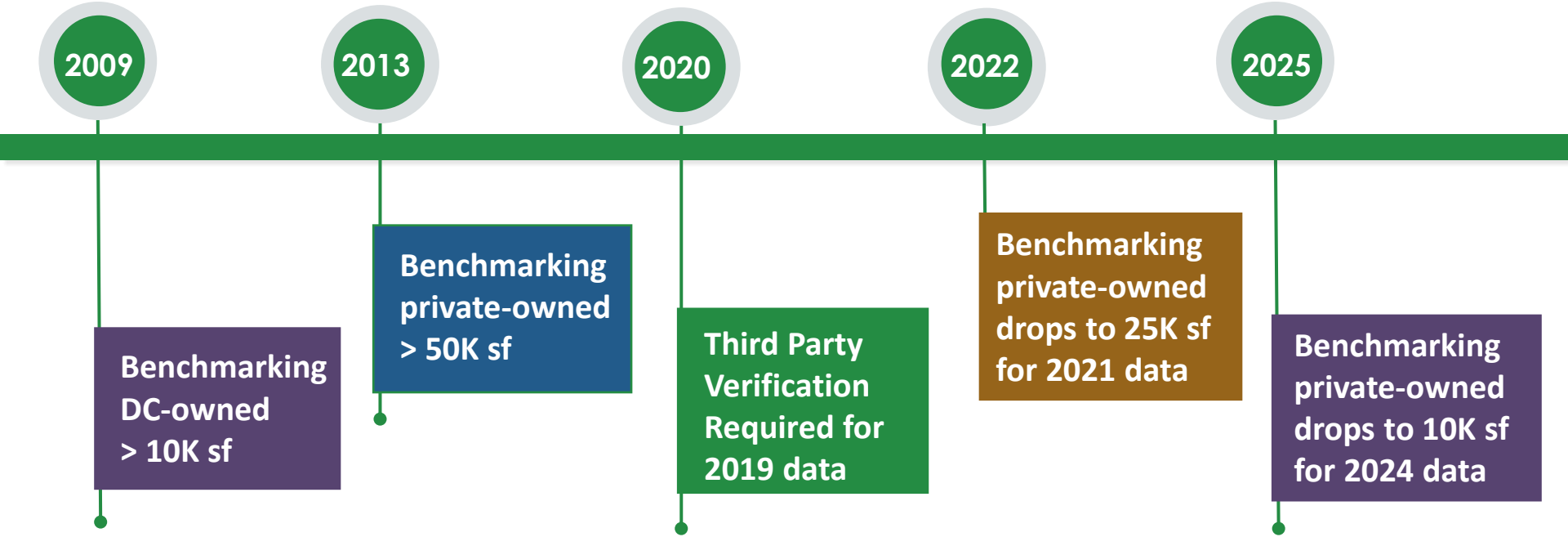
**ANNUAL GHG EMISSIONS SAVINGS: 1.05 million tons of CO2e!!**

# BENCHMARKING 101

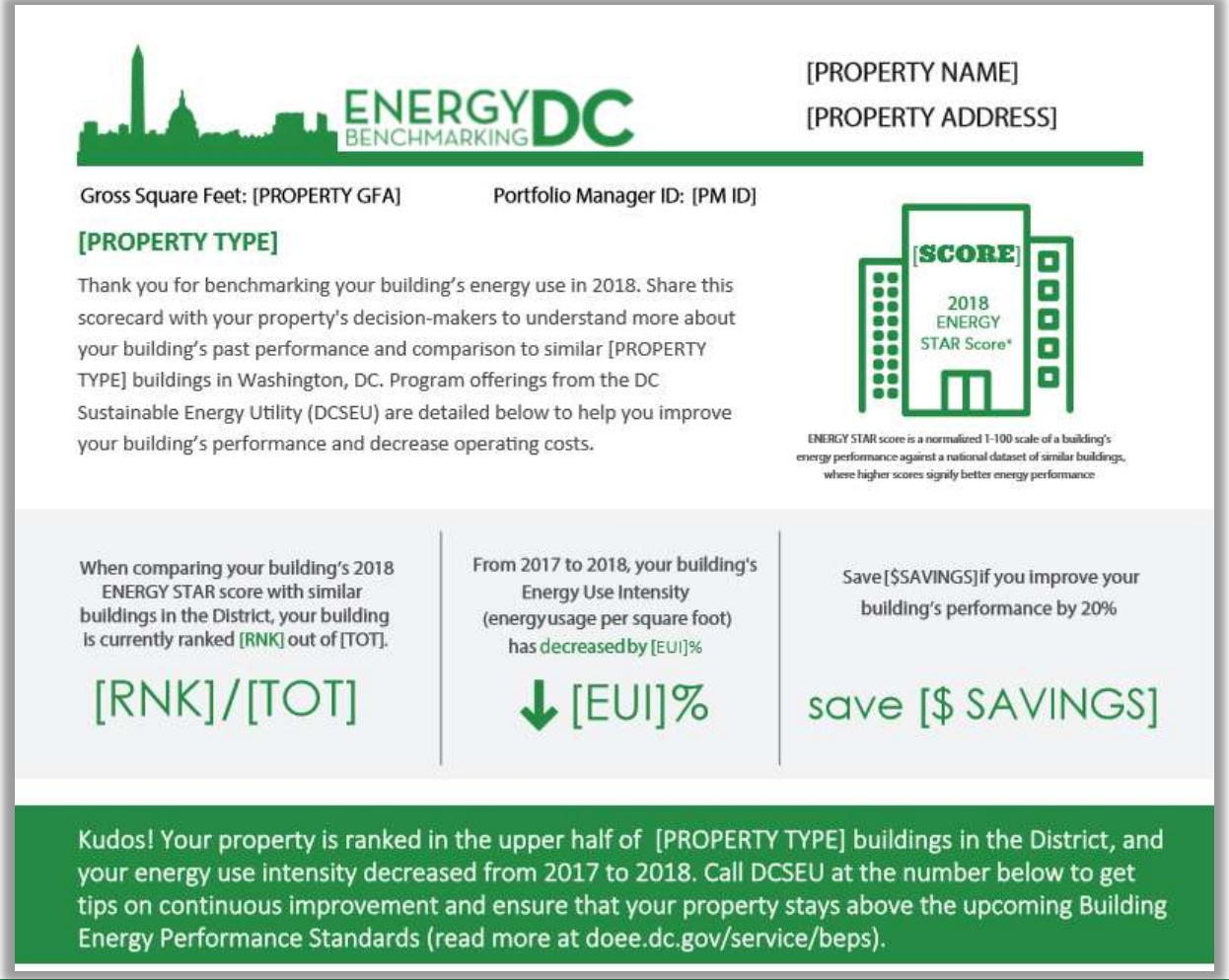
- Clean and Affordable Energy Act of 2008 requires all private buildings >50,000 square feet to report their annual energy and water use for public disclosure
- Requires all District-owned buildings >10,000 square feet to report their annual energy and water use
- Annual reporting deadline is April 1 of each year
- Failure to meet the reporting requirements results in a fine of up to $100/day for every day that buildings are not in compliance

# Benchmarking Changes

Third Party Verification Now Required Every Three Years



# Scorecards sent out for the first time in 2019

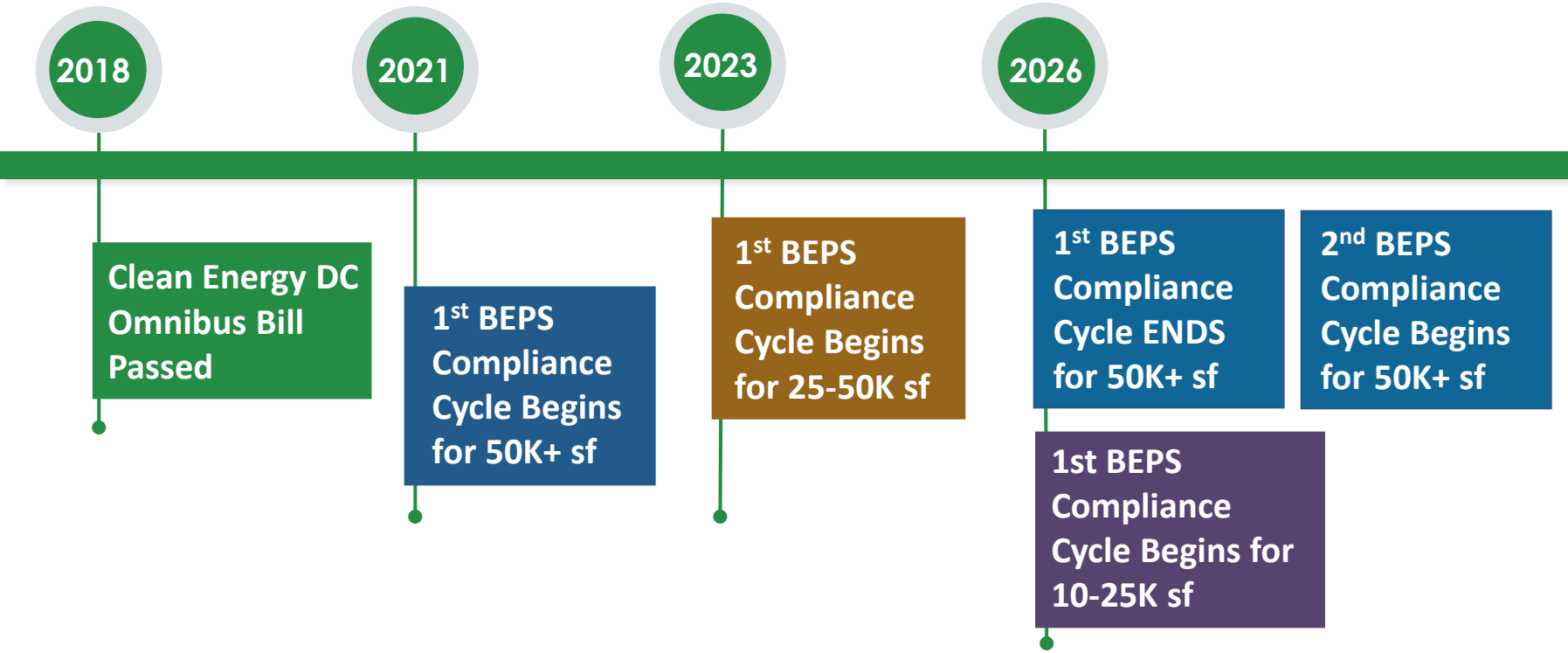



To request scorecard data for multiple buildings, send an email to info.benchmark@dc.gov

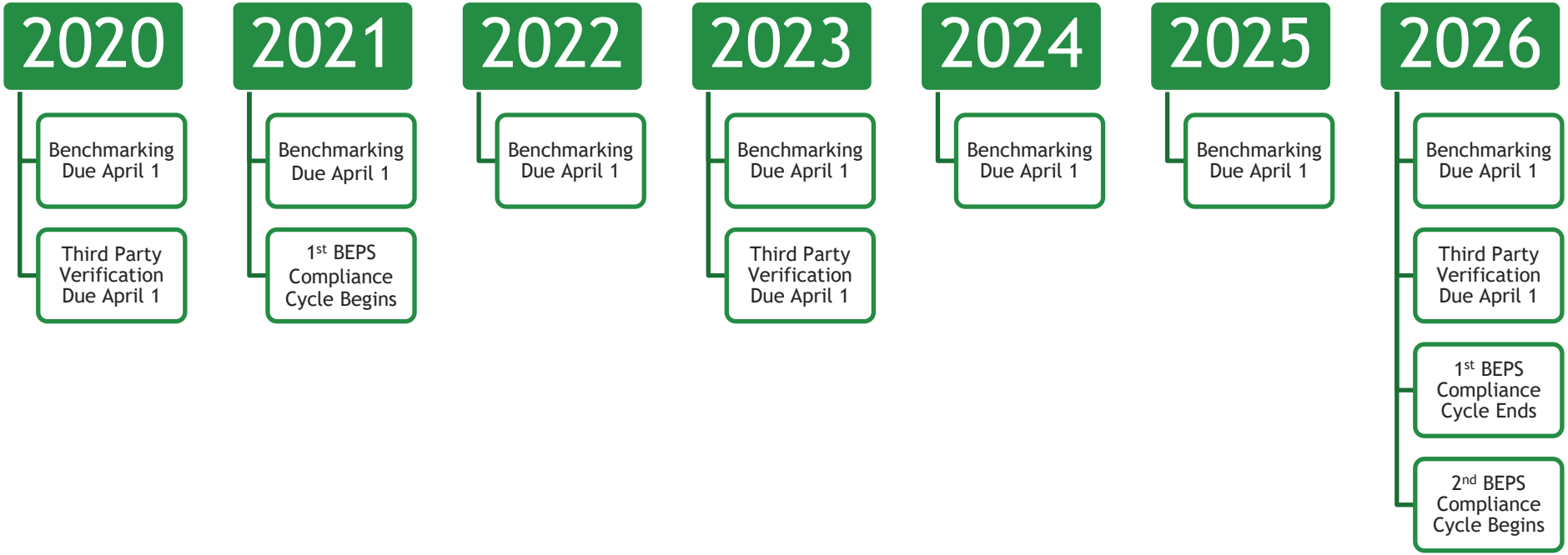
# BUILDING ENERGY PERFORMANCE STANDARD

- DOEE must establish a minimum threshold for energy performance – will be "at least" the local median ENERGY STAR score by property type (or equivalent)
- DOEE determines enforcement rules for compliance
- 5-year compliance cycles - 1st cycle begins Jan. 2021
- Compliance paths for bldgs. below minimum:
  - Performance: Reduce energy usage 20%
  - Prescriptive: Implement cost-effective energy efficiency measures
  - Other as determined by DOEE

# BEPS Compliance Cycles



# Example Timeline: >50K sf Private-Owned Building



# CLEAN ENERGY DC ACT: NEW PROGRAMS & FUNDING

Increased revenue & expanded uses for the **Sustainable Energy Trust Fund (SETF):** $20-22 million in Fiscal Years 2020-2022

- $70 million over 6 years to **DC Green Bank**
- $3 million beginning in FY2022 to support **affordable housing compliance with BEPS**
- 30% of the increase (~$7million) in SETF to **benefit low-income residents**; support workforce development initiatives and the Sustainable Energy Infrastructure Capacity Building & Pipeline Program

Allows gas and electric utilities to apply to PSC to offer energy efficiency and demand reduction programs

# DC Green Building Incentives Alignment

DCPACE
A CLEAN ENERGY FINANCE SOLUTION
DEPARTMENT OF ENERGY AND ENVIRONMENT

- SPECIAL TAX ASSESSMENT
- CASH-FLOW POSITIVE

DC
SUSTAINABLE ENERGY
UTILITY

- REBATES
- PAY FOR PERFORMANCE

SOLAR FOR ALL
A PROGRAM OF DC'S DEPARTMENT OF ENERGY AND ENVIRONMENT

- COMMUNITY SOLAR
- LMI BENEFITS

DC
GREEN BANK
A CLEAN ENERGY FINANCE SOLUTION

- CREDIT ENHANCEMENTS
- LOANS AND INVESTMENTS

# HIGH PERFORMANCE BUILDING HUB

DOEE is working with IMT and partners to design a hub to support YOU through this transition by creating a platform for collaboration, innovation, capacity building, training, and technical assistance.

**More than 2,700 buildings impacted by BEPS!**

- **916 buildings over 50k sf**
- **561 buildings 25-50k sf**
- **1,269 buildings 10-25k sf**

**In Consideration:**

- Training in high-performance building design and construction techniques
- Support for high efficiency projects
- Direct technical assistance
- Targeted research and resource development
- Market support and development
- Opportunities for knowledge exchange and collaboration

# BEPS TIMELINE

- 2018 Scorecards sent out in Fall 2019
- BEPS Task Force – meetings will commence in December
- Draft Rules ready for public comment mid-2020
- A minimum of 1 round of public comment open for 30 days
- Final rules published in late 2020
- 2019 Scorecards sent out – September 2020
- BEP Standard announced around December 2020
- First compliance period starts January 1, 2021

# LEARN MORE!

- Sign up for newsletter at https://doee.dc.gov/service/BEPS
- Read feedback from the Working Groups
- Attend a Task Force meeting
- Participate in a targeted focus group
- Attend a future education session or webinar
- Submit public comments on the rules
- Tell your friends/coworkers/clients about BEPS!