

CLEAN ENERGY DC

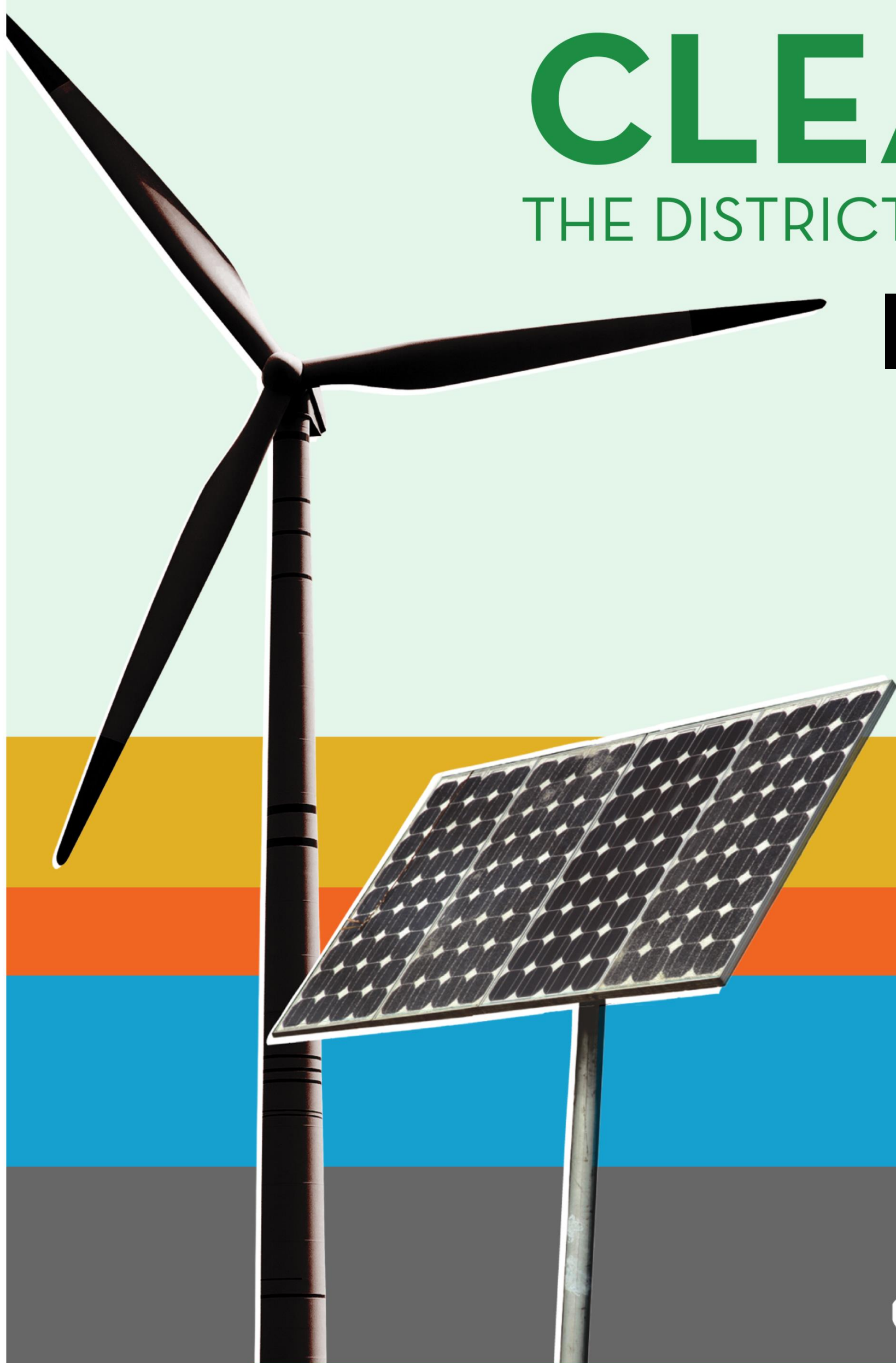
THE DISTRICT OF COLUMBIA CLIMATE AND ENERGY PLAN

Informational Webinar

June 17, 2021

★ ★ ★ DEPARTMENT
OF ENERGY &
ENVIRONMENT

GOVERNMENT OF THE DISTRICT OF COLUMBIA



AGENDA

- **Overview of the Clean Energy DC Plan**
- **Implementing CEDC**
- **Updating the Plan**
- **Discussion**
- **Next Steps**



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DC

WHAT IS CLEAN ENERGY DC?

The Plan

- Adopted August 2018
- The District's energy plan and climate action plan
- Roadmap for achieving the **Sustainable DC** 2032 climate & energy targets
- Recommends 57 action items across the buildings, transportation and energy system sectors

The Act

- The Clean Energy DC Omnibus Amendment Act of 2018 (effective March 22, 2019)
- Turns major CEDC Plan recommendations into law
- Cross-sectoral: energy efficiency, renewable energy, electric vehicles and economic benefits



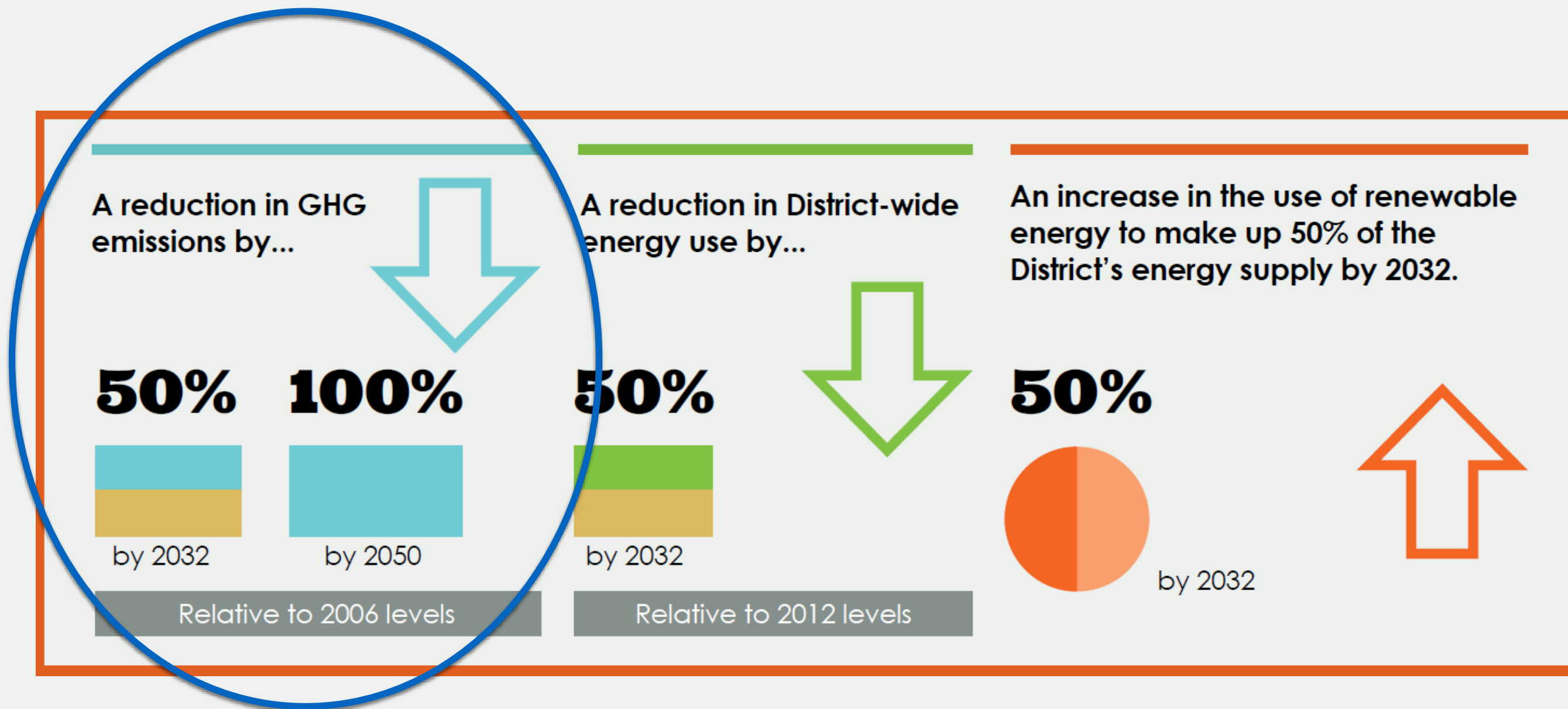
DC CLIMATE AND ENERGY GOALS

Goals

Reduce GHGs by 50% by 2032

Progress

~30% GHG reduction in 2018



Meeting our Climate Goals

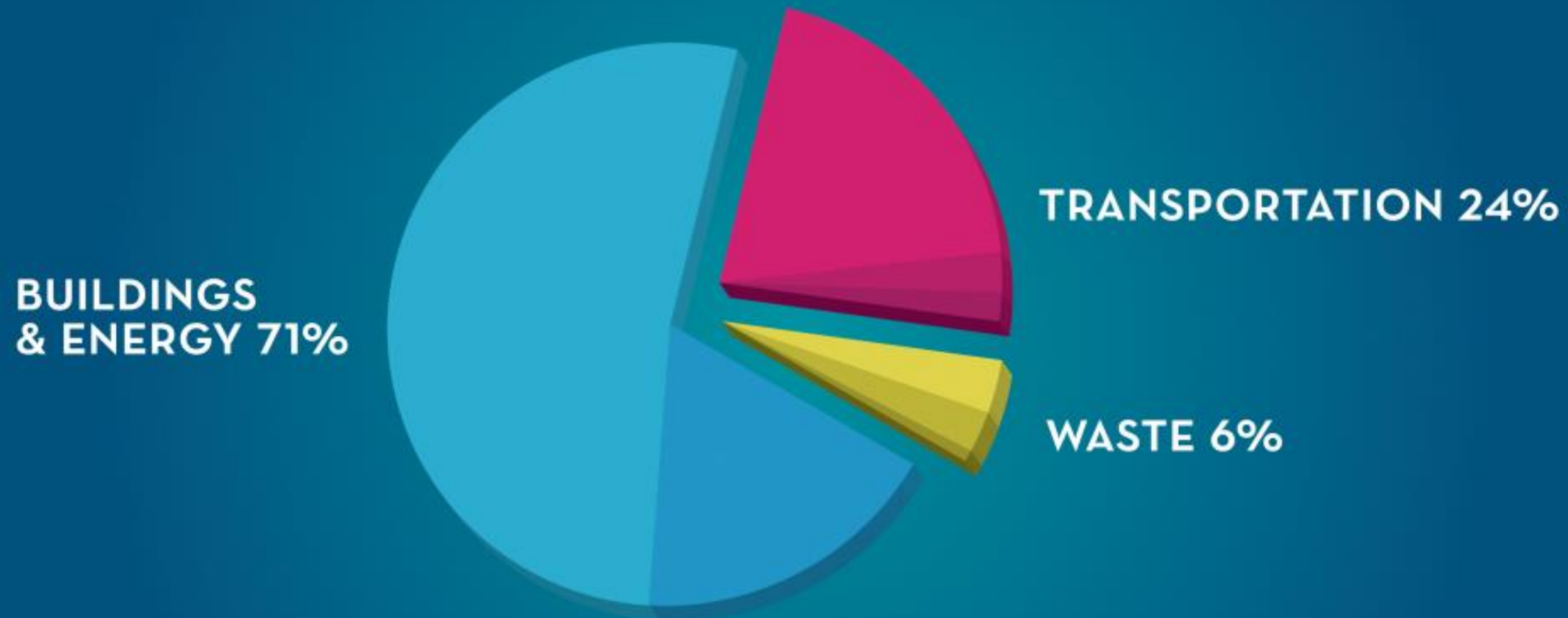


The District has cut its citywide carbon footprint 30 percent since 2006.

Source: Department of Energy and Environment

DISTRICT GHG EMISSIONS

2019 EMISSIONS BY SECTOR



BUILDINGS & ENERGY

- COMMERCIAL 71%
- RESIDENTIAL 29%

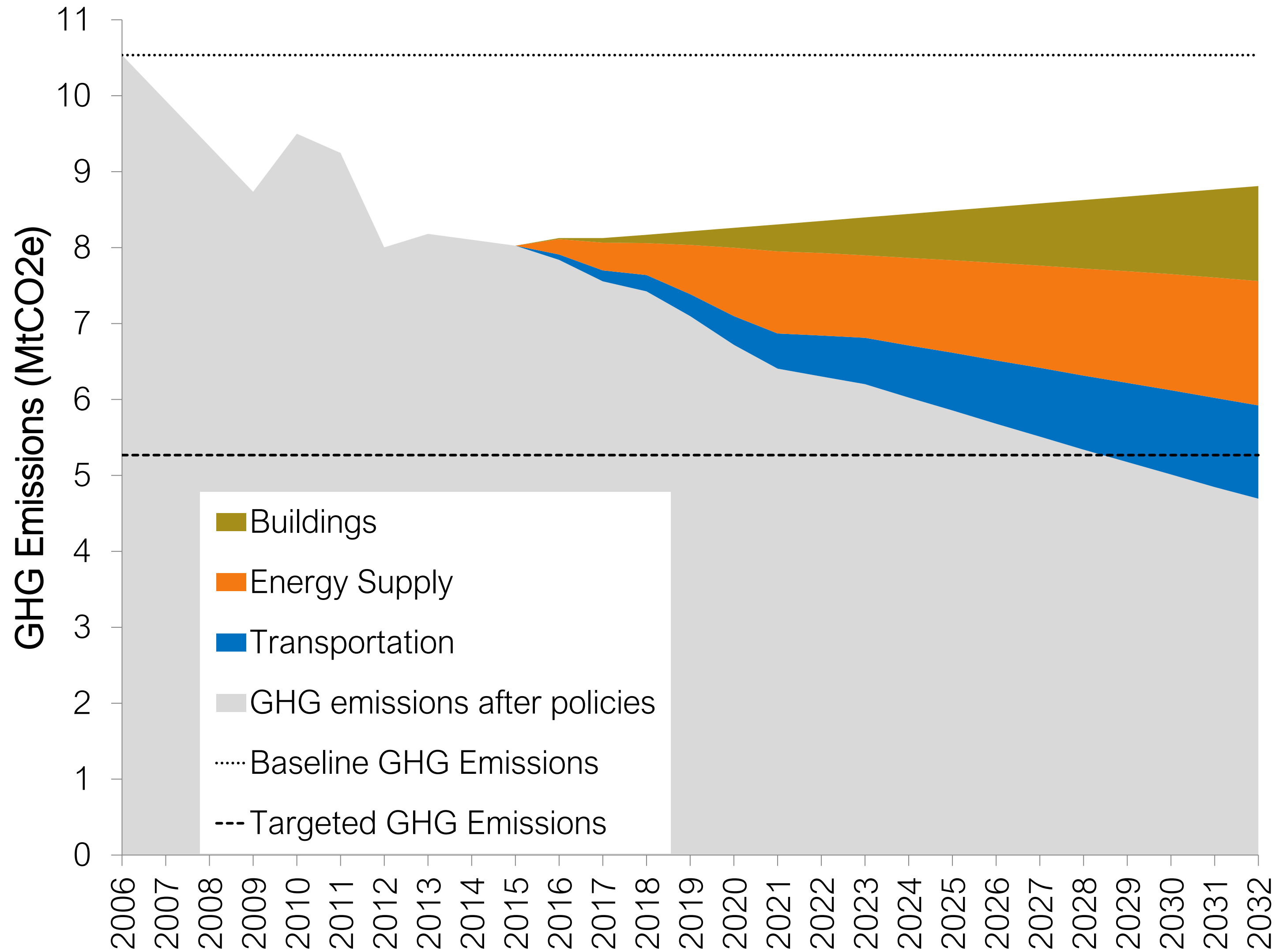
TRANSPORTATION

- PASSENGER VEHICLES 83%
- TRUCKS & BUSES 10%
- TRANSIT 7%

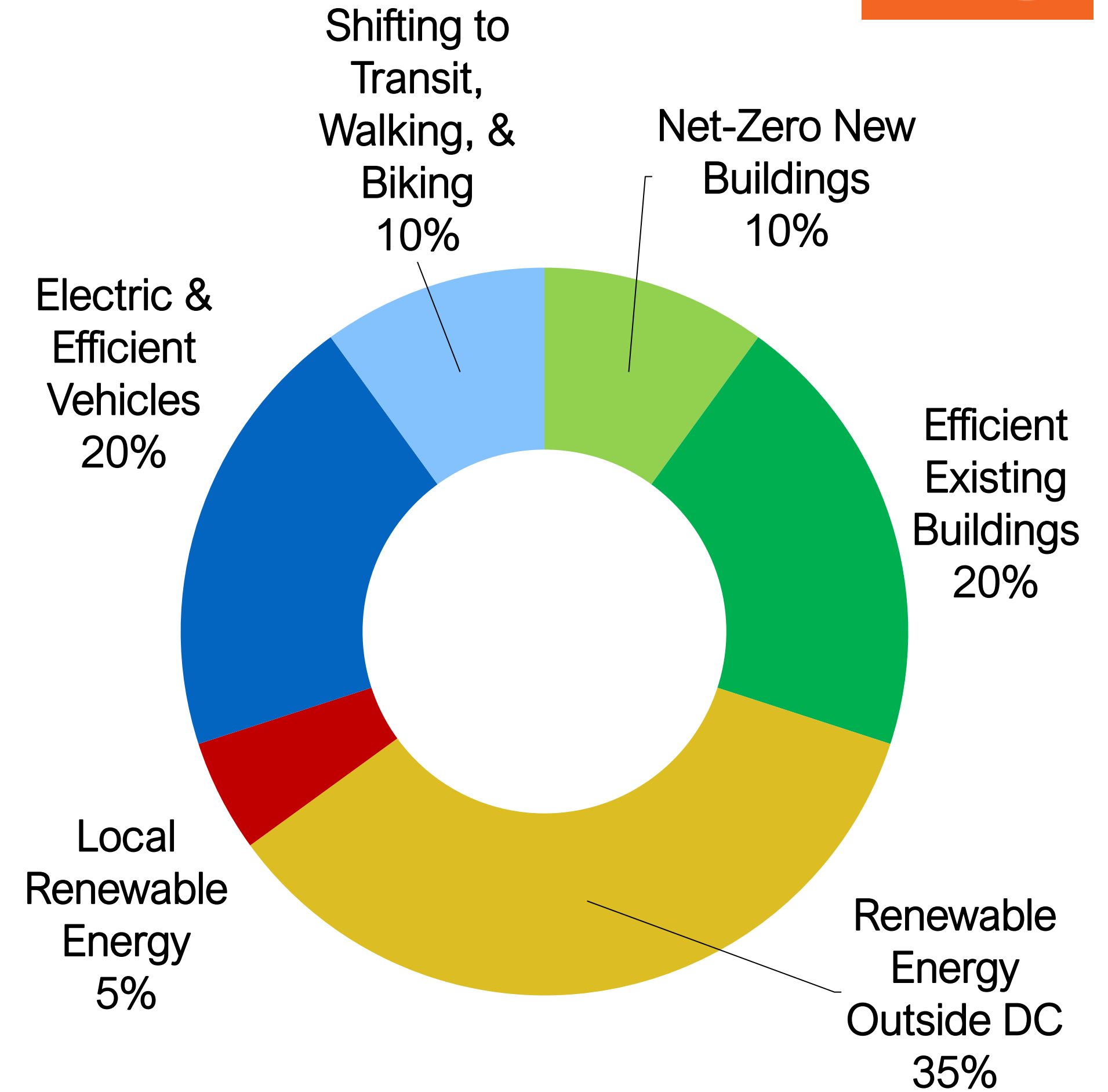
WASTE

- LANDFILL 55%
- INCINERATION 37%
- WASTEWATER 8%

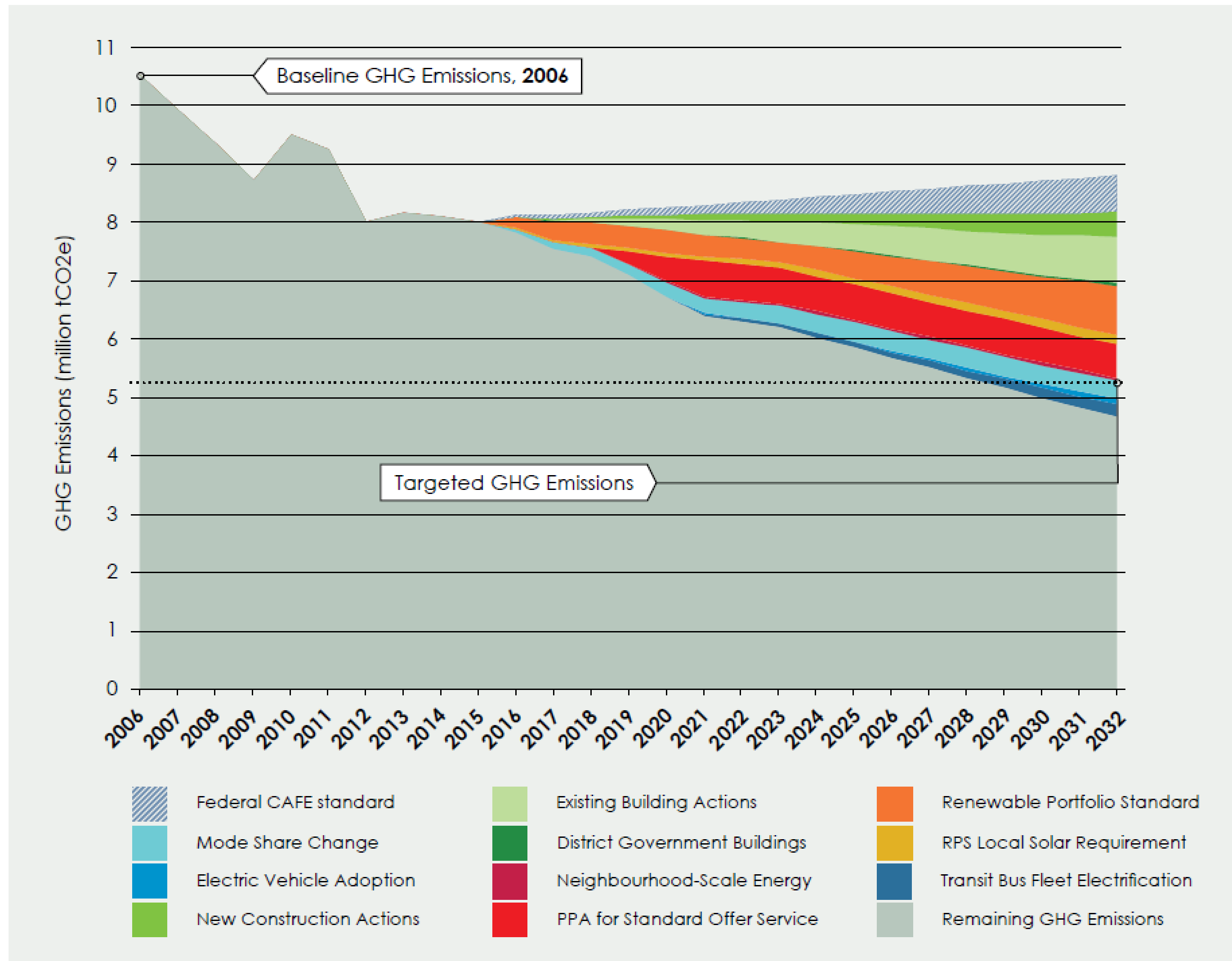
ESTIMATED CEDC GHG SAVINGS BY SECTOR



RELATIVE IMPACT OF ACTION AREAS



ESTIMATED GHG SAVINGS



CEDC Plan Action Area	Percent GHGs Reduced from Total 2032 BAU	Addressed in CEDC <u>ACT</u>
Federal Fuel Economy Standards	7.1%	CAFE
New Construction Policies	4.6%	codes
Existing Building Policies	9.0%	✓
District Government Buildings	0.5%	✓
Renewable Portfolio Standard	9.5%	✓
RPS Local Solar Requirement	1.9%	✓
PPA for Standard Offer Service	6.6%	✓ PSC
Neighborhood-Scale Energy	0.6%	
Mode Share Change	3.6%	moveDC
Electric Vehicle Adoption	0.9%	✓
Transit Bus Fleet Electrification	2.6%	✓
Total GHGs Avoided vs. 2032 BAU	47.0%	✓
Total GHGs Reduced vs. 2006 Baseline	55.7%	

Progress and Achievements



BUILDINGS HIGHLIGHTS

- First **Building Energy Performance Standard** est. Jan 1, 2021*
- Est. **DC Green Bank** - Open for business!
- Created **Building Innovation Hub**
- Passed more stringent **building energy codes**
- New workforce development programs created*

SPOTLIGHT: Building Energy Performance Standard

- 20% reduction in energy use for buildings that do not meet the Standards
- Represents 12% reduction in GHG by 2032
- \$30.032m ARP/SETF funding in FY22 to assist affordable housing and other low-income/under-resourced buildings. A similar amount of funding is anticipated in FY23 and FY24.

* Denotes program created by Clean Energy DC Omnibus Amendment Act



TRANSPORTATION HIGHLIGHTS

- Develop **Transportation Electrification Roadmap** by 2021*
- Established Vehicle excise tax on high-emitters*
- Expanding fleet of all-electric Circulator buses
- AV working group set to make recommendations

SPOTLIGHT: Transportation Electrification Roadmap

- This is the city's plan for electrifying cars and buses to meet the targets set in the CEDC Act, including 25% of vehicle registrations zero-emissions vehicles by 2030 and 50% of public buses and large fleets ZEV by 2030
- Plan to be published in 2021

* Denotes program created by Clean Energy DC Omnibus Amendment Act



ENERGY HIGHLIGHTS

- **100% renewable electricity standard by 2032***
- Increased **local solar** carve-out (10 % by 2041)*
- **Green Bank** supporting solar installations
- **Solar for All** provides discounted solar to 5,400 low/moderate income homes
- **Solar Works** expands to create more inclusive workforce

SPOTLIGHT: **Solar and Equity**

- \$22m in ARP funding for FY22 will support an est. 14MW of new installations, benefiting ~4,000 new income-eligible households
- Solar training program, Solar Works, to double number of trainees to 150 DC residents utilizing same funding as above

* Denotes program created by Clean Energy DC Omnibus Amendment Act



What's next for the Clean Energy DC Plan?



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UPDATING THE PLAN

Statutory Requirements

- The CEDC Plan fulfills the District's statutory requirement to produce a Comprehensive Energy Plan (CEP)

The Planning Cycle

- Plan cycle is every 5 years
- The 2018 plan marked a big shift in the CEP
 - Moved beyond simply quantifying energy use and supply to providing a cross-sector decarbonization framework
 - Forward-thinking plan that set ambitious, but achievable goals
- Updated Plan due in 2023
 - What will be in this plan?

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THE NEXT ITERATION

Vision and Goals

- Supports the Mayor's vision to make the District of Columbia the healthiest, greenest, most livable city for all District residents
- A roadmap that will allow the District to meet or exceed its 2032 energy and climate goals, while putting the city on a path to carbon neutrality by 2050

Considerations for the new plan

- Recommended Actions- Update and add new policies, agency actions, financing mechanisms, etc.
- Framework- Current framework considers direct emissions from operations of building, vehicles and power generation, but does not include lifecycle emissions associated with goods and services bought and used in the District, such as the carbon embodied in construction materials or consumer products.
- Areas of focus- Define or update the areas of focus/sectors the plan should address (i.e., buildings, transportation, energy supply, grid modernization, equity, economy)



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ROUGH TIMELINE

2021

- Take stock of implementation to date; stakeholder and community engagement

2022

- Draft plan, release for public comment, revise based on feedback

2023

- Publish plan and begin implementation

DISCUSSION QUESTIONS

1. **What do you see as challenges or barriers for meeting our 2032 GHG and energy goals? What are the gaps in the current plan?**
2. **What sectors or areas of focus should be prioritized? Buildings, transportation, grid modernization, energy supply, energy demand, equity, environmental justice, economy, workforce? Why?**
3. **What are your new ideas? Can the plan be used to “reimagine energy” in DC, develop a circular economy, reduce our energy use and GHG emissions from all the resources consumed in DC?**
4. **How should DOEE engage the community and its stakeholders in this process?**

NEXT STEPS

- Resident survey - <https://www.surveymonkey.com/r/CleanEnergyDC2>
- CEDC Newsletter
- Keep an eye out for updates and opportunities to participate!
- Email cedc2.0@dc.gov



THANK YOU

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