

District of Columbia

Transportation Electrification Roadmap

School Bus Electrification

Webinar will begin shortly...



GOVERNMENT OF THE
DISTRICT OF COLUMBIA
MURIEL BOWSER, MAYOR

District of Columbia

Transportation Electrification Roadmap

School Bus Electrification

Thursday, 29 July 2021



Welcome – Opening Remarks – Agenda

Agenda Outline

- Stakeholder session schedule
- The District's Clean Energy Plan (Eric Campbell, DOEE)
 - Transportation Electrification Roadmap
- School Bus Electrification
 - Vehicles/ Charging Equipment
 - Financing
- Breakout Discussion
- Report-out/Questions/Feedback/General Discussion

Roadmap - Status

Transportation Electrification Roadmap Final Report due **October 31, 2021**

- ***Receive Stakeholder comments and redraft accordingly***

Past stakeholder session topics

- January 27 Introduction and Orientation
- March 17 Introduction to Mobility Equity
- April 29 Equitable EV Charging Placement
- May 13 Transportation Needs Assessment/Incentives Framework
- May 27 Potential Incentives
- June 24 EV/ EV Service Equipment Strategy

Recordings of past sessions can be provided.

Schedule of Stakeholder Sessions

Upcoming stakeholder session topics

- Thurs, August 26, 7pm Concluding Roadmap Feedback Group

Register at bit.ly/electrification-roadmap

CLEAN ENERGY DC

THE DISTRICT OF COLUMBIA CLIMATE AND ENERGY PLAN

Transportation Electrification

★ ★ ★ DEPARTMENT
OF ENERGY &
ENVIRONMENT

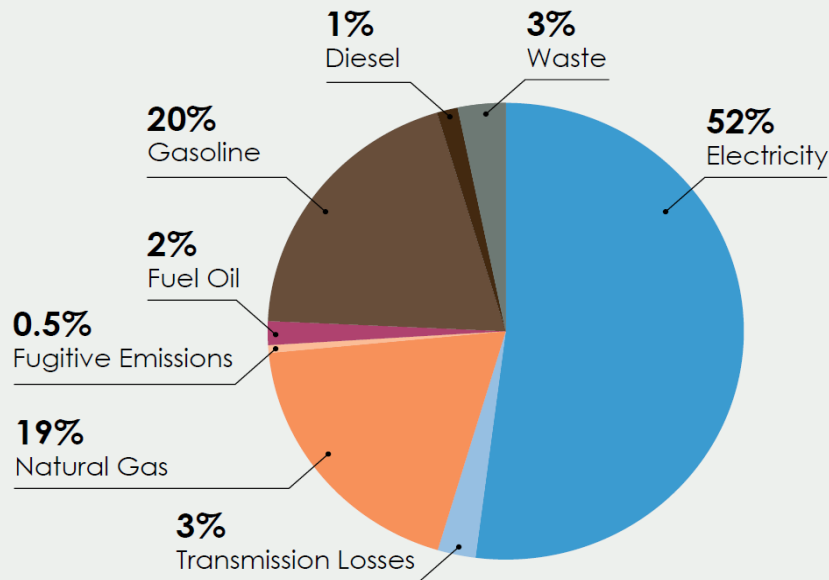
GOVERNMENT OF THE DISTRICT OF COLUMBIA



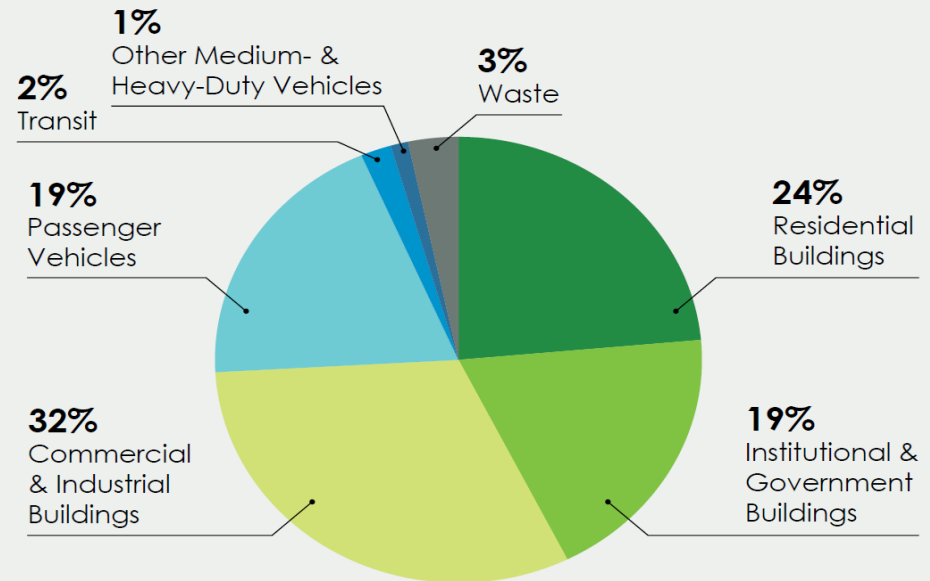
DC CLIMATE AND ENERGY GOALS

Clean Energy DC is the District's first quantified roadmap to meet the Sustainable DC climate and energy goals.

GHG EMISSIONS BY SOURCE



GHG EMISSIONS BY SECTOR

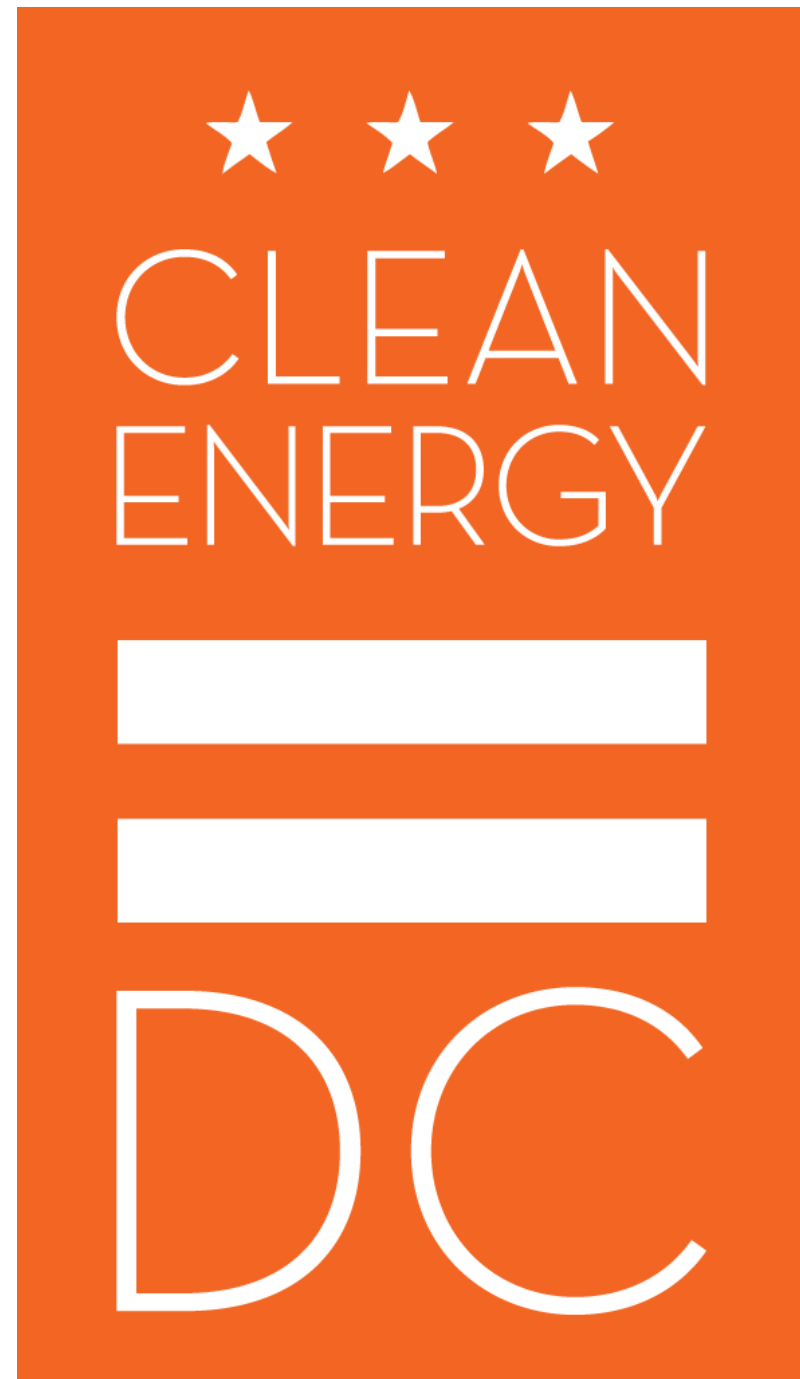


The plan will **reduce emissions by 50 %** by 2032 compared to 2006 levels, and will help the city achieve **carbon neutrality by 2050**

Overview of CEDC Act

The Act, effective as of March 2019, will realize CEDC goals by targeting three areas:

- **Transportation Emissions Reduction and Electrification-** mandates and incentivizes a path for zero-emissions fleets, buses and private vehicles
- **Renewable Energy-** mandates 100% renewable energy by 2032
- **Energy Efficiency-** Establishes a first-of-its kind Building Energy Performance Standard for buildings



Transportation Electrification Roadmap Goals

- 1 Buses and private fleets 50% Low or Zero Emissions Vehicle (ZEV) by 2030 → 100% ZEV by 2045
- 2 100% EV replacement of public buses and school buses at End-Of-Life by 2021
- 3 At least 25% ZEV registrations by 2030 (estimate ~75,000 EVs)

Provide policies, cost estimates, and timelines

Transportation Electrification Roadmap

Transportation Vision:

Mode Shift to
active
transport
and public
transit



Fuel switch to
Electricity



QUESTIONS?



CONTACT INFORMATION

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A close-up photograph of a person's hand plugging a white charging cable into the charging port of a white electric vehicle. The hand is wearing a silver bracelet and a ring. The background is blurred, showing the side of the vehicle and a red light. The text "School Bus Electrification" is overlaid in green.

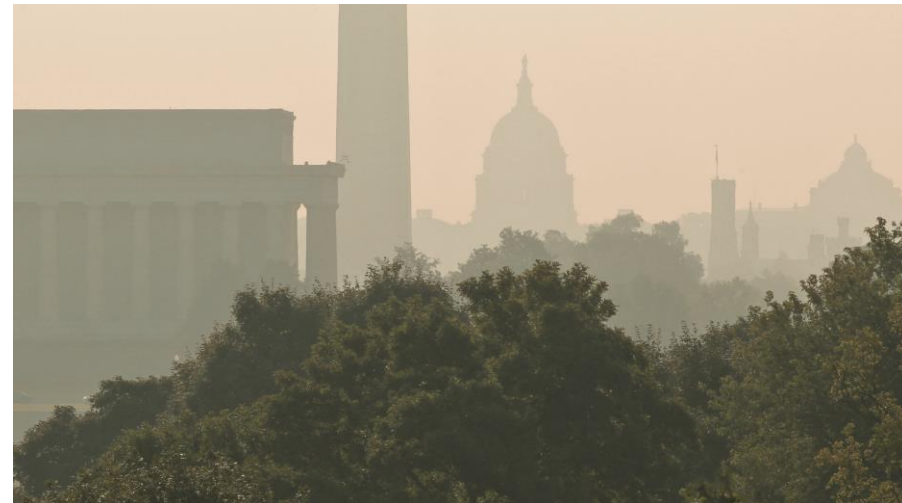
School Bus Electrification

Reducing Air Pollution with Electric School Buses



Air Pollution is now the largest environmental risk for early death

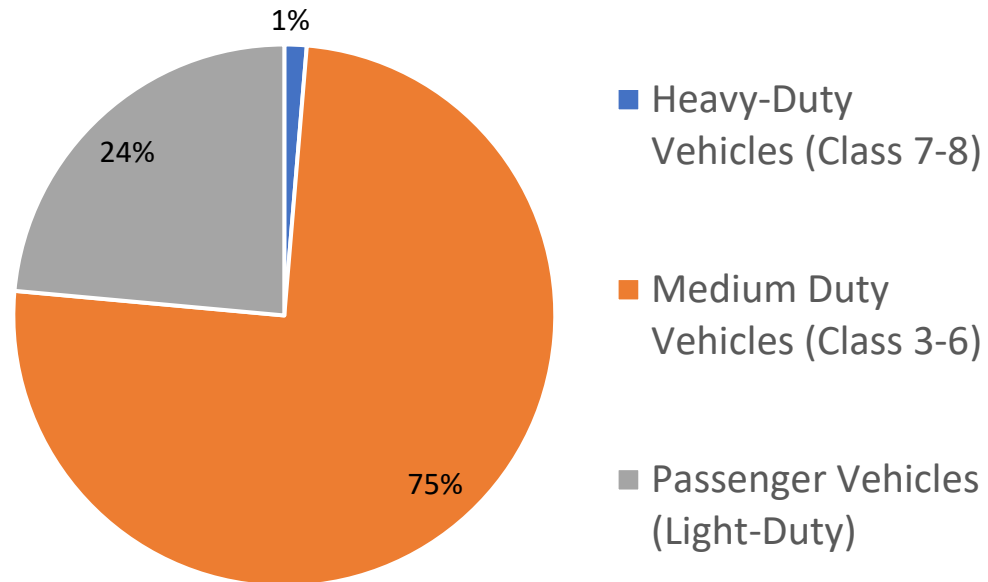
And is responsible for more than 6 million premature deaths each year



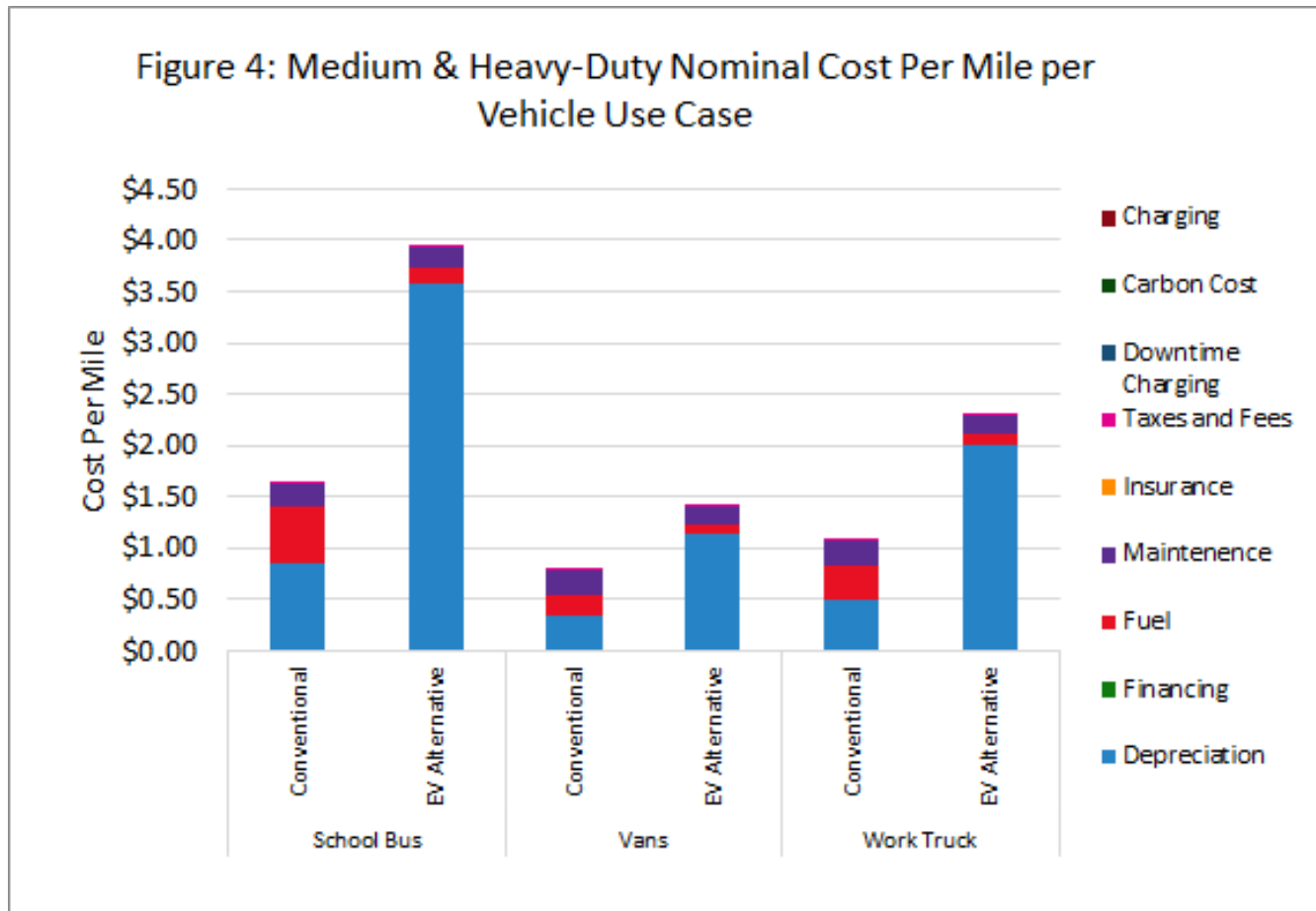
OSSE Fleet Vehicle Class Breakdown



Figure 1: Fleet Makeup



Funding an Electric School Bus Fleet



Challenges unique to the OSSE fleet



Options to reduce barriers to electrification



Collins E-450 Type A Electric School Bus

Charging an Electric School Bus Fleet



Incorporating Equity in Electric School Bus Programs



Electric School Bus Rider Experience



One option



Another option

Electric School Bus Rider Experience



ADA accessible electric bus

Twin Rivers Unified School District – Sacramento, CA

- First in the country
- Now operating 40 Electric School Buses
- All new buses will be alternatively fueled



Breakout Groups



Discussion areas:

How to inform communities of the benefits of electric buses

Where would you like to see these buses deployed initially?

How can the District serve equity and racial justice in its electric school bus fleet transition?

Contact Information

Thank you for your participation.

How Can We Improve?

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Electrification
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